



2021/2022



## PRODUKT-KATEGORIE

## PRODUCT CATEGORY

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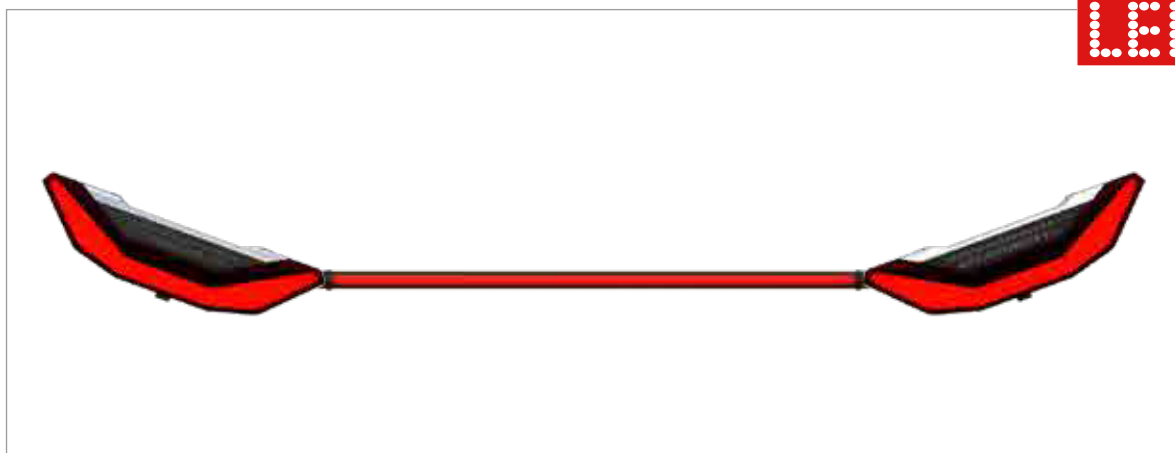
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# NEUHEITEN

## NEW PRODUCTS



LEUCHTENSERIE L 3600 MIT BRIDGELIGHT L 50  
LIGHTING SYSTEM L 3600 WITH BRIDGELIGHT L50



LEUCHTENSERIE L 40  
LIGHTING SYSTEM L 40



VORZELT- VORFELDLEUCHTE WW 350  
LED AWNING PREFIELD WW 350



BLINKLEUCHTE BL 45  
INDICATOR LIGHT BL 45



DREIECK-RÜCKSTRAHLER DR 130  
TRIANGULAR REFLEX REFLECTOR DR 130



MULTIFUNKTIONSLEUCHTE L 940  
MULTIPLE FUNCTION LIGHT L 940



MULTIFUNKTIONSLEUCHTE L 920  
MULTIPLE FUNCTION LIGHT L 920



LEUCHTENSERIE L 112 / L115  
LIGHTING SYSTEM L 112 / L 115



LEUCHTENSYSTEM L 2019-1  
LIGHTING SYSTEM L 2019-1



UMRISSLEUCHTE L 2025  
END-OUTLINE MARKER L 2025



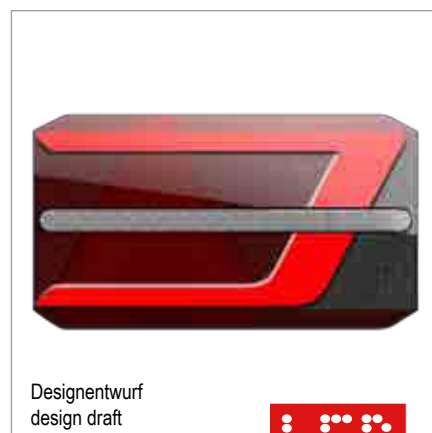
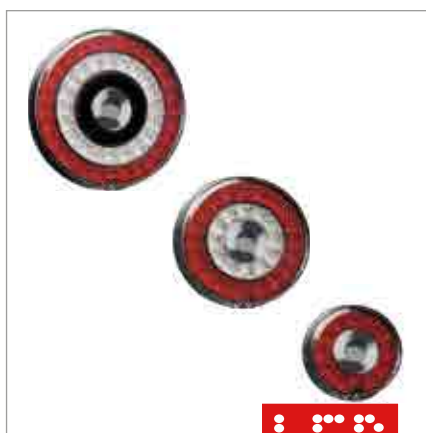
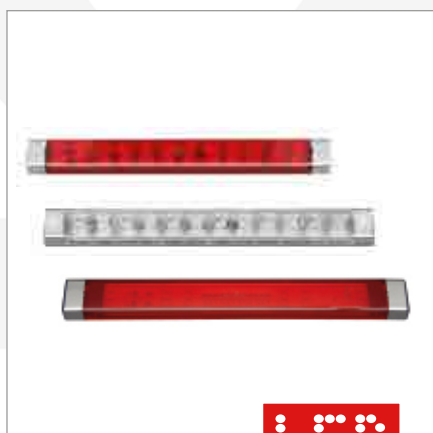
LED ARBEITSSCHEINWERFER WORK-ON  
LED WORK LIGHTS WORK-ON

# FAHRZEUG-LEUCHTEN

## VEHICLE LIGHTS

Verleihen Sie Ihrem Fahrzeug Charakter! Im JOKON-Programm finden Sie für jeden Anwendungsfall hochwertige Leuchten, die die individuelle Gestaltung Ihres Fahrzeuges betonen und Akzente setzen. Egal, ob Sie eine Leuchte für einen Bus, einen Traktor, einen Rollstuhl, ein Wohnmobil oder einen Anhänger suchen: JOKON ist in so gut wie jedem Fahrzeug-Segment vertreten. Dabei reicht das Programm von der einfachen Glühlampenleuchte bis hin zur anspruchsvollen LED-Multifunktionsleuchte.

*Lend a touch of character to your vehicle! In the JOKON range, you will find high quality lights for any application that enhance the individual design of your vehicle and set highlights. Whether you are looking for a light for a bus, a tractor, a wheelchair, a camper or a trailer: JOKON is represented in just about every vehicle segment. The range extends from normal bulb lights to sophisticated LED multiple function lights.*



Designentwurf  
design draft







## LEUCHTEN-SYSTEME LIGHTING SYSTEMS



## LED-LEUCHTEN-SYSTEM L 250 \* LED LIGHTING SYSTEM L 250

Die L250 ist eine sehr kompakte LED-Leuchte, die durch ihre spezielle Optik in beliebigem Winkel (um X-Achse bzw. Fahrzeuglängsmittelachse) am Fahrzeug angebracht werden kann (Ausnahme WBL250). Dadurch lassen sich sehr markante und individuelle Fahrzeug-Hecks gestalten. Einsatz sowohl bei Fahrzeugen mit 12 V- wie auch bei 24 V-Bordspannung (9-32 V Versionen).

The L250 is a very compact LED light, which can be mounted in any angle (X-axis or vehicle longitudinal central axis) (except WBL250). This allows to design very distinctive vehicle rear ends. Can be used on vehicles with both 12 V and 24 V on-board voltage (9-32 V versions).

## Merkmale \* Features



- Charakteristisches Nacht-Design und beliebiger Winkel
- characteristic night design and mounting in any angle



- Version der Brems-Schlussleuchte mit homogener Ausleuchtung
- homogeneous Stop / Tail Light Version



- Erhältlich als Blink-Brems-Schlussleuchte
- available as DI / Stop / Tail Light

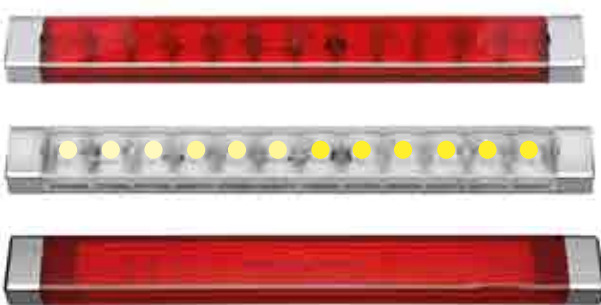


- Mit Microfaser-Membran für optimalen thermodyn. Ausgleich
- with microfibre membrane for optimal thermodynamic balance

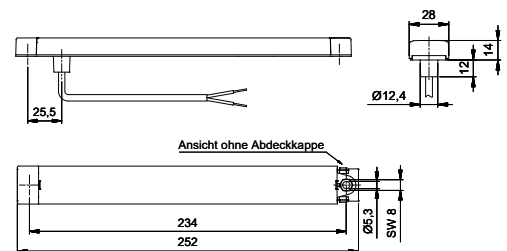


- Kombinierbarkeit mit LED-Kontrollbox für Blinkerausfallkontrolle
- combination with device for LED failure control of direction indicator

## Technische Daten \* Technical Data



SEQUENZIELLER BLINKER (WBL)  
SEQUENTIAL DIRECTION INDICATOR (WBL)

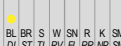
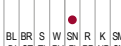
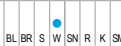


- In beliebigem Winkel (360°/X-Achse) montierbar (Ausnahme WBL)
- Inkl. seilt. Kappen (je nach Vers. verchromt od. wie Lichtscheibe)
- Installation rückseitig (M5-Schraube) oder von vorne
- Aufbau-Montage sowie vertiefter Einbau
- Einzelader-Abdichtung für optimale Wasserdichtigkeit
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Blinker: mit LDC (LED-Defect-Contr.); kombinierb. mit LK 100-1-X

- can be mounted in any angle (360°/X-axis) (except sequential direction-indicator)
- incl. lateral covers (chrome-plated or like lens dep. on version)
- installation either from the back (M5 screw) or from the front
- surface mounting or flush mounting
- single wire insulation for perfect water tightness
- incl. non visible membrane for thermodynamic balance
- DI function: with LDC (LED-Defect-Control); can be combined with LK 100-1-X

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                                            | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour                  | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------|-------------------------------------|------------------------------------------------------------------------|------------------------------------------------|-------------------|-------------------|--------------------------------------------------------|------------------------------|-------------------|--------------------------|----------|------------------------|
|                 | <b>10.0060.000</b><br>BBS 250/12V   | LED-Blink-Brems-Schlussleuchte<br>LED DI / Stop / Tail Light           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12V<br>DC         | 2 / 2 / 1 W       | PC/ABS-PC; klar / clear<br>Kappe / cover: chrome       | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 15       | E13-34960<br>EMV / EMC |
|                 | <b>10.0063.000</b><br>BRS 250/12V   | LED-Brems-/Schlussleuchte homogen<br>LED Stop / Tail Light homogeneous | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12V<br>DC         | 2,0 / 0,3 W       | PC/ABS-PC; rot / red<br>Kappe / cover: chrome          | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 15       | E13-35447              |
|                 | <b>13.0023.000</b><br>S 250/12V     | LED-Schlussleuchte, homogen<br>LED Tail Light, homogeneous             | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12V<br>DC         | 0,3 W             | PC/ABS-PC; rot / red<br>Kappe / cover: chrome          | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 15       | E13-35447              |
|                 | <b>10.0045.000</b><br>BRS 250/9-32V | LED-Brems-/Schlussleuchte<br>LED Stop / Tail Light                     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 9-32V<br>DC       | 2,0 / 0,3 W       | PC/ABS-PC; rot / red<br>Kappe / cover: chrome          | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 15       | E13-13262<br>EMV / EMC |
|                 | <b>10.0048.000</b><br>BRS 250/12V   | LED-Brems-Schlussleuchte<br>LED Stop / Tail Light                      | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12V<br>DC         | 2,2 / 0,3 W       | PC/ABS-PC; rot / red<br>Kappe / cover: chrome          | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 15       | E13-13262<br>EMV / EMC |
|                 | <b>13.0019.000</b><br>S 250/9-32V   | LED-Schlussleuchte<br>LED Tail Light                                   | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 9-32V<br>DC       | 0,3 W             | PC/ABS-PC; rot / red<br>Kappe / cover: chrome          | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 15       | E13-13260<br>EMV / EMC |
|                 | <b>13.0021.000</b><br>S 250/12V     | LED-Schlussleuchte<br>LED Tail Light                                   | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12V<br>DC         | 0,3 W             | PC/ABS-PC; rot / red<br>Kappe / cover: chrome          | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 15       | E13-13260<br>EMV / EMC |
|                 | <b>13.2006.000</b><br>BR 250/9-32V  | LED Bremsleuchte<br>LED Stop Light                                     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 9-32V<br>DC       | 2,2 W             | PC/ABS-PC; rot / red<br>Kappe / cover: chrome          | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 15       | E13-13261<br>EMV / EMC |
|                 | <b>13.2008.600</b><br>BR 250/12V    | LED Bremsleuchte<br>LED Stop Light                                     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12V<br>DC         | 2,2 W             | PC/ABS-PC; klar / clear<br>Kappe / cover: klar / clear | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 15       | E13-13261<br>EMV / EMC |
|                 | <b>13.1053.500</b><br>BL 250/9-32V  | LED-Blinkleuchte Kat. 2a<br>LED DI Light, Cat. 2a                      | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 9-32V<br>DC       | 2,2 W             | PC/ABS-PC; klar / clear<br>Kappe / cover: chrome       | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 15       | E13-13255<br>EMV / EMC |

## LED-LEUCHTEN-SYSTEM L 250 \* LED LIGHTING SYSTEM L 250

| Bild<br>Picture                                                                  | Art.-Nr. / No.<br>Typ / Type          | Beschreibung<br>Description                                | Merkmale<br>Features                                                                                                                                                                                                                                                             | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour                          | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp.  | VP<br>PU | Homolog.<br>Approval   |
|----------------------------------------------------------------------------------|---------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|----------------------------------------------------------------|------------------------------------|-------------------|---------------------------|----------|------------------------|
|  | <b>13.1069.000</b><br>BL 250/12V      | LED-Blinkleuchte Kat. 2a<br><i>LED DI Light, Cat. 2a</i>   | <br>mit LED-Defect-Control (LDC)<br><i>with LED defect control (LDC)</i>                                                                                                                        | 12V<br>DC         | 2,5 W             | PC/ABS-PC; klar / <i>clear</i><br>Kappe / cover: <i>chrome</i> | Kabel 500 mm<br><i>cabl 500 mm</i> | 0,09 kg           | -20/+50°C<br><i>IP 67</i> | 15       | E13-13255<br>EMV / EMC |
|  | <b>13.1065.000</b><br>WBL 250/12V     | LED-Sequentielle Blinkleuchte<br><i>LED Sequential DI</i>  | <br>mit LED-Defect-Control (LDC)<br><i>with LED defect control (LDC)</i>                                                                                                                        | 12V<br>DC         | 2,5 W             | PC/ABS-PC; klar / <i>clear</i><br>Kappe / cover: <i>chrome</i> | Kabel 500 mm<br><i>cabl 500 mm</i> | 0,09 kg           | -20/+50°C<br><i>IP 67</i> | 15       | E13-34866<br>EMV / EMC |
|  | <b>13.3032.000</b><br>SN 250/9-32V    | LED-Nebelschlussleuchte<br><i>LED Fog Light</i>            |                                                                                                                                                                                                 | 9-32V<br>DC       | 2,2 W             | PC/ABS-PC; rot / <i>red</i><br>Kappe / cover: <i>chrome</i>    | Kabel 500 mm<br><i>cabl 500 mm</i> | 0,09 kg           | -20/+50°C<br><i>IP 67</i> | 15       | E13-13362<br>EMV / EMC |
|  | <b>13.6035.000</b><br>W 250/9-32V     | LED-Rückfahrleuchte<br><i>LED Reversing Light</i>          |                                                                                                                                                                                                 | 9-32V<br>DC       | 4,5 W             | PC/ABS-PC; klar / <i>clear</i><br>Kappe / cover: <i>chrome</i> | Kabel 500 mm<br><i>cabl 500 mm</i> | 0,09 kg           | -20/+50°C<br><i>IP 67</i> | 15       | E13-13360<br>EMV / EMC |
|  | <b>13.6037.000</b><br>W 250/12V       | LED-Rückfahrleuchte<br><i>LED Reversing Light</i>          |                                                                                                                                                                                                 | 12V<br>DC         | 5 W               | PC/ABS-PC; klar / <i>clear</i><br>Kappe / cover: <i>chrome</i> | Kabel 500 mm<br><i>cabl 500 mm</i> | 0,09 kg           | -20/+50°C<br><i>IP 67</i> | 15       | E13-13360<br>EMV / EMC |
|  | <b>15.0018.100</b><br>ZHBL 250b/9-32V | LED-Zusatzbremsleuchte<br><i>LED High Level Stop Light</i> | <br>Zusatz-Information:<br><i>Additional Information:</i> mit „D-Zulassung“, d.h. es können auch 2 Leuchten kombiniert werden.<br><i>with „D Approval“, i.e. also 2 lights can be combined.</i> | 9-32V<br>DC       | 1 W               | PC/ABS-PC; rot / <i>red</i><br>Kappe / cover: <i>rot / red</i> | Kabel 500 mm<br><i>cabl 500 mm</i> | 0,09 kg           | -20/+50°C<br><i>IP 67</i> | 15       | E13-13365<br>EMV / EMC |
|  | <b>31.0017.000</b><br>R 250 r/cr      | Rückstrahler<br><i>Reflex Reflector</i>                    |                                                                                                                                                                                                 |                   |                   | PC/ABS-PC; rot / <i>red</i><br>Kappe / cover: <i>chrome</i>    |                                    | 0,05 kg           | -20/+50°C<br><i>IP 67</i> | 15       | E13-13361              |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|                                                                                     |                                     |                                                             |                                        |      |          |                                          |                                        |          |                           |   |     |
|-------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------|----------------------------------------|------|----------|------------------------------------------|----------------------------------------|----------|---------------------------|---|-----|
|  | <b>19.2035.000</b>                  | Abdeckkappen (Paar) chrom<br><i>covers (pair) chrome</i>    |                                        |      |          |                                          |                                        | 0,007 kg |                           |   |     |
|                                                                                     | <b>19.2035.100</b>                  | Abdeckkappen (Paar) rot<br><i>covers (pair) red</i>         |                                        |      |          |                                          |                                        | 0,006 kg |                           |   |     |
|                                                                                     | <b>19.2035.200</b>                  | Abdeckkappen (Paar) gelb<br><i>covers (pair) yellow</i>     |                                        |      |          |                                          |                                        | 0,006 kg |                           |   |     |
|                                                                                     | <b>19.2035.300</b>                  | Abdeckkappen (Paar) grau<br><i>covers (pair) grey</i>       |                                        |      |          |                                          |                                        | 0,006 kg |                           |   |     |
|   | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br><i>LED Control Device (DI)</i> | Schaltsw/Threshold<br>25 mA (I=const.) | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - <i>black</i> | Kabel 2x1500mm<br><i>cabl 2x1500mm</i> | 0,40 kg  | -20/+50°C<br><i>IP 67</i> | 1 | EMV |
|                                                                                     | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br><i>LED Control Device (DI)</i> | Schaltsw/Threshold<br>20 mA (I=const.) | 24 V | 2 x 21 W | Aluminium / PU<br>schwarz - <i>black</i> | Kabel 2x1500mm<br><i>cabl 2x1500mm</i> | 0,40 kg  | -20/+50°C<br><i>IP 67</i> | 1 | EMV |



## LED-LEUCHTEN-SYSTEM L 260 \* LED LIGHTING SYSTEM L 260

Das Leuchtensystem L 260 besticht durch sein modernes und äußerst homogenes Erscheinungsbild der leuchtenden Flächen, verbunden mit einer sehr kompakten, stabförmigen Bauform mit verdeckter Schraubbefestigung. Die LED-Leuchten sind anschlussfertig, wasserdicht vergossen, mit einer Druckausgleichsmembrane versehen und verfügen über ein Anschlusskabel von 500 mm Länge. Die Leuchten sind für den Aufbau und für den Einbau geeignet.

The L 260 lighting system impresses with its modern and extremely homogeneous appearance of the luminous surfaces, combined with a very compact, bar-shaped design with concealed screw fixing. The LED lights are ready for plug-in, waterproof sealed, equipped with a non-visible membrane for thermodynamic balance and have a connecting cable of 500 mm length. The lights are suitable for surface mounting and flush mounting.

## Merkmale \* Features



- Charakteristisches Nacht-Design und innovative Technik
- characteristic night design and innovative technology



- Marken LEDs von Osram und Nichia für lange Lebensdauer
- High-Grade LEDs from Osram and Nichia for long life time



- Einzeladerabdichtung für maximalen IP-Schutz und Funktionssicherheit
- single wire insulation for high IP protection class and max. reliability

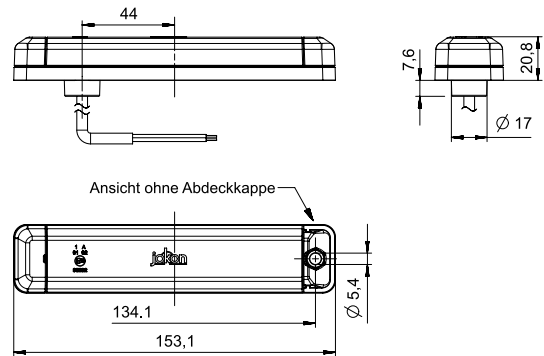


- Mit Microfaser-Membran für optimalen thermodyn. Ausgleich
- with microfibre membrane for optimal thermodynamic balance



- Kombinierbar mit LED-Kontrollbox für Blinkerausfallkontrolle
- combination with device for LED failure control of direction indicator

## Technische Daten \* Technical Data



- Inkl. schwarzer Abdeckkappen (Farbvarianten auf Anfrage)
- Aufbau-Montage sowie vertiefter Einbau
- Einzelader-Abdichtung für optimale Wasserdichtigkeit
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Blinker: mit LDC (LED-Defect-Contr.); kombinierb. mit LK 100b-1

- incl. black cover caps (colour variants on request)
- surface mounting or flush mounting
- single wire insulation for perfect water tightness
- incl. non visible membrane for thermodynamic balance
- DI function: with LDC (LED-Defect-Control); can be combined with LK 100b-1

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type          | Beschreibung<br>Description                                  | Merkmale<br>Features                                                                                                                                                                                                                                                                                            | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour        | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval  |
|-------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|----------------------------------------------|------------------------------|-------------------|--------------------------|----------|-----------------------|
|  | auf Anfrage/on request<br>BBS 260/12V | LED-Blink-Brems-Schlussleuchte<br>LED DI / Stop / Tail Light | <div><div><div>BL</div><div>DI</div></div><div><div>BR</div><div>ST</div></div><div><div>S</div><div>TL</div></div><div><div>W</div><div>RV</div></div><div><div>SN</div><div>FL</div></div><div><div>R</div><div>RR</div></div><div><div>K</div><div>NP</div></div><div><div>SM</div><div>SM</div></div></div> | 12V<br>DC         |                   | PC - klar / clear<br>ABS-PC - schwarz/ black | Kabel 500 mm<br>cable 500 mm |                   | IP 67                    |          |                       |
|  | auf Anfrage/on request<br>BBS 260/24V | LED-Blink-Brems-Schlussleuchte<br>LED DI / Stop / Tail Light | <div><div><div>BL</div><div>DI</div></div><div><div>BR</div><div>ST</div></div><div><div>S</div><div>TL</div></div><div><div>W</div><div>RV</div></div><div><div>SN</div><div>FL</div></div><div><div>R</div><div>RR</div></div><div><div>K</div><div>NP</div></div><div><div>SM</div><div>SM</div></div></div> | 24V<br>DC         |                   | PC - klar / clear<br>ABS-PC - schwarz/ black | Kabel 500 mm<br>cable 500 mm |                   | IP 67                    |          |                       |
|  | 11.0026.000<br>BP 260/12V             | LED-Blink-Begrenzungsleuchte<br>LED-DI / Marker Light        | <div><div><div>BL</div><div>DI</div></div><div><div>BR</div><div>ST</div></div><div><div>S</div><div>TL</div></div><div><div>W</div><div>RV</div></div><div><div>SN</div><div>FL</div></div><div><div>R</div><div>RR</div></div><div><div>K</div><div>NP</div></div><div><div>FL</div><div>FL</div></div></div> | 12V<br>DC         | 2,0 / 1,0 W       | PC - klar / clear<br>ABS-PC - schwarz/ black | Kabel 500 mm<br>cable 500 mm |                   | -20/+50°C<br>IP 67       | 16       | E13-35232<br>EMV/ EMC |
|                                                                                     |                                       | Zusatz-Information:<br>Additional Information:               | mit LED-Defect-Control (LDC) / Impulsgeber<br>with LED defect control (LDC) / Impuls                                                                                                                                                                                                                            |                   |                   |                                              |                              |                   |                          |          |                       |
|  | 11.0027.000<br>BP 260/12V             | LED-Blink-Begrenzungsleuchte<br>LED-DI / Marker Light        | <div><div><div>BL</div><div>DI</div></div><div><div>BR</div><div>ST</div></div><div><div>S</div><div>TL</div></div><div><div>W</div><div>RV</div></div><div><div>SN</div><div>FL</div></div><div><div>R</div><div>RR</div></div><div><div>K</div><div>NP</div></div><div><div>FL</div><div>FL</div></div></div> | 12V<br>DC         | 2,0 / 1,0 W       | PC - klar / clear<br>ABS-PC - schwarz/ black | Kabel 500 mm<br>cable 500 mm |                   | -20/+50°C<br>IP 67       | 16       | E13-35232<br>EMV/EMC  |
|                                                                                     |                                       | Zusatz-Information:<br>Additional Information:               | mit LED-Defect-Control (LDC)<br>with LED defect control (LDC)                                                                                                                                                                                                                                                   |                   |                   |                                              |                              |                   |                          |          |                       |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                              |                                                      |                                         |      |          |                                   |                                  |         |                    |   |           |
|--|------------------------------|------------------------------------------------------|-----------------------------------------|------|----------|-----------------------------------|----------------------------------|---------|--------------------|---|-----------|
|  | 62.3001.002<br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schwellw./Threshold<br>25 mA (I=const.) | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|--|------------------------------|------------------------------------------------------|-----------------------------------------|------|----------|-----------------------------------|----------------------------------|---------|--------------------|---|-----------|

# LEUCHTEN-SYSTEME LIGHTING SYSTEMS



## LED-LEUCHTEN-SYSTEM L 112 \* LED LIGHTING SYSTEM L 112

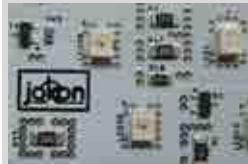
Das Leuchtensystem L 112 mit einem Außendurchmesser von 112 mm stellt eine gelungene Symbiose aus Saphira Lichttechnik und vollhomogener Diffusor-Optik der Schlusslichtfunktion dar. Die LED-Leuchten sind anschlussfertig, wasserdicht vergossen, mit einer Druckausgleichsmembrane versehen und verfügen über ein Anschlusskabel von 500 mm Länge. Die Leuchten sind für den Einbau und für den Aufbau geeignet. In Verbindung mit SNWS 115 doppelte Schlusslichtfunktion, natürlich mit entsprechender D-Zulassung (ECE R48).

The L 112 lighting system with an outer diameter of 112 mm represents a successful symbiosis of Saphira lighting technology and fully homogeneous diffuser optics for the taillight function. The LED lights are ready for plug-in, waterproof sealed, equipped with a non-visible membrane for thermodynamic balance and have a connecting cable of 500 mm length. The lights are suitable for surface mounting and flush mounting. Together with SNWS 115 double tail light function with corresponding D-approval (ECE R48).

## Merkmale \* Features



- Charakteristisches Nacht-Design und innovative Technik
- characteristic night design and innovative technology



- Marken LEDs von Osram für lange Lebensdauer
- High-Grade LEDs from Osram for long life time



- Einzeldraderabdichtung für maximalen IP-Schutz und Funktionssicherheit
- single wire insulation for high IP protection class and max. reliability

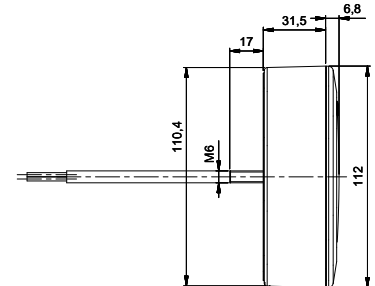
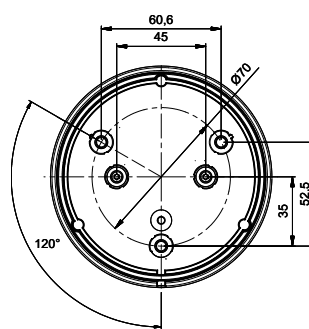


- Mit Microfaser-Membran für optimalen thermodyn. Ausgleich
- with microfibre membrane for optimal thermodynamic balance



- Kombinierbar mit LED-Kontrollbox für Blinkerausfallkontrolle
- combination with device for LED failure control of direction indicator

## Technische Daten \* Technical Data



- Schlusslicht mit homogener Diffusor-Optik
- D-Zulassung für doppelten Anbau der Schlusslichtfunktion
- Befestigung über integrierte Gewindebolzen
- Einzeldrader-Abdichtung für optimale Wasserdichtigkeit
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Blinker: mit LDC (LED-Defect-Contr.); kombinierb. mit LK 100b-1

- taillight with homogeneous diffuser optics
- D-approval for double mounting of the tail light function
- mounting via integrated threaded bolts
- single wire insulation for perfect water tightness
- incl. non visible membrane for thermodynamic balance
- DI function: with LDC (LED-Defect-Control) for combination with LK control device

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                                     | Merkmale<br>Features                            | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour                 | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------|------------------------------------|-----------------------------------------------------------------|-------------------------------------------------|-------------------|-------------------|-------------------------------------------------------|------------------------------|-------------------|--------------------------|----------|------------------------|
|                 | <b>10.1042.000</b><br>BBS 112/12V  | LED-Blink-Brems-Schlussleuchte<br>LED DI / Stop / Tail Light    | BL BR S W SN R K SM<br>DI ST TL RV FL RRI NP SM | 12V<br>DC         | 3 / 5 / 5 W       | PC - klar-rot / clear-red<br>ABS-PC - schwarz / black | Kabel 500 mm<br>cable 500 mm | 0,22 kg           | -20/+50°C<br>IP 67       | 12       | E13-35099              |
|                 | <b>10.1042.500</b><br>BBS 112/24V  | LED-Blink-Brems-Schlussleuchte<br>LED DI / Stop / Tail Light    | BL BR S W SN R K SM<br>DI ST TL RV FL RRI NP SM | 24V<br>DC         | 3 / 5 / 5 W       | PC - klar-rot / clear-red<br>ABS-PC - schwarz / black | Kabel 500 mm<br>cable 500 mm | 0,22 kg           | -20/+50°C<br>IP 67       | 12       | E13-35099              |
|                 | <b>13.3118.000</b><br>SNWS 112/12V | LED-Nebelschl.-Rückfahr-Schlussl.<br>LED Fog/Reverse/Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RRI NP SM | 12V<br>DC         | 3 / 5 / 5 W       | PC - klar-rot / clear-red<br>ABS-PC - schwarz / black | Kabel 500 mm<br>cable 500 mm | 0,23 kg           | -20/+50°C<br>IP 67       | 12       | E13-35099<br>E13-35862 |
|                 | <b>13.3118.500</b><br>SNWS 112/24V | LED-Nebelschl.-Rückfahr-Schlussl.<br>LED Fog/Reverse/Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RRI NP SM | 24V<br>DC         | 3 / 5 / 5 W       | PC - klar-rot / clear-red<br>ABS-PC - schwarz / black | Kabel 500 mm<br>cable 500 mm | 0,23 kg           | -20/+50°C<br>IP 67       | 12       | E13-35099<br>E13-35862 |

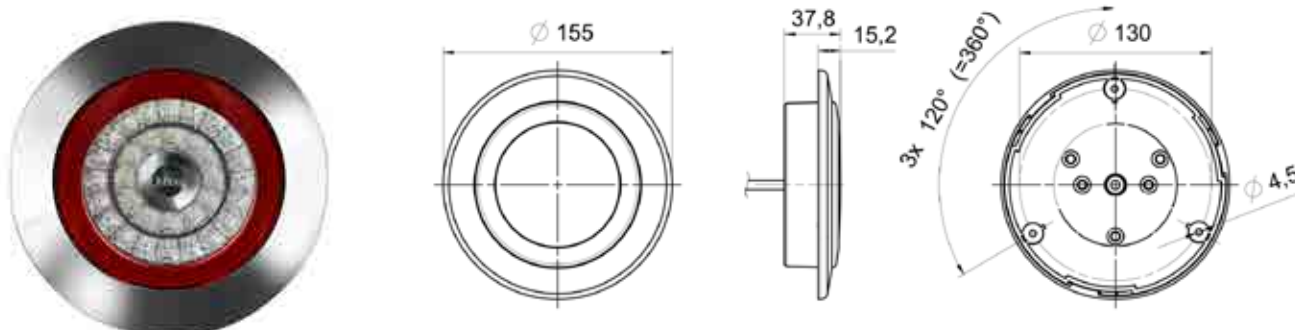
## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                     |                                                      |                                       |      |          |                                   |                                  |         |                    |   |     |
|--|-------------------------------------|------------------------------------------------------|---------------------------------------|------|----------|-----------------------------------|----------------------------------|---------|--------------------|---|-----|
|  | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Thresholt<br>25 mA (=const.) | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV |
|  | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Thresholt<br>20 mA (=const.) | 24 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV |

## LED-LEUCHTEN-SYSTEM L 115\* LED LIGHTING SYSTEM L 115

Die LED-Leuchten Typ L 115 mit homogener Schlusslichtfunktion, Einzeladerabdichtung und einer Goretexmembran zum Druckausgleich bzw. Abführung von Feuchtigkeit. Schraublöcher werden durch den dekorativen Chromring verdeckt. In Verbindung mit SNWS 115 doppelte Schlusslichtfunktion, natürlich mit entsprechender D-Zulassung (ECE-R 48).

The LED lights type L 115 with homogeneous tail light function, single wire sealing and a Goretex membrane for pressure compensation or moisture dissipation. Screw holes are concealed by the decorative chrome ring. In conjunction with SNWS 115 double tail light function, of course with corresponding D approval (ECE-R 48).



- Schlusslicht mit homogener Diffusor-Optik
- D-Zulassung für doppelten Anbau der Schlusslichtfunktion
- Befestigungsöffnungen durch Chromring verdeckt
- Einzelader-Abdichtung für optimale Wasserdichtigkeit
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Blinker: mit LDC (LED-Defect-Contr.); kombinierb. mit LK 100b-1

- taillight with homogeneous diffusor optics
- D-approval for double mounting of the tail light function
- screw holes hidden by chrome ring
- single wire insulation for perfect water tightness
- incl. non visible membrane for thermodynamic balance
- DI function: with LCD (LED-Defect-Control) for combination with LK control device

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                                            | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection        | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------|------------------------------------|------------------------------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|--------------------------------|-------------------|--------------------------|----------|------------------------|
|                 | <b>10.1043.000</b><br>BBS 115/12V  | LED-Blink-Brems-Schlussleuchte<br>LED DI / Stop / Tail Light           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 4/3/3 W           | PMMA / PC/ ABS                        | Kabel 500 mm<br>cable 500 mm   | 0,30 kg           | -20/+50°C<br>IP 67       | 12       | E13-35099              |
|                 | <b>10.1043.500</b><br>BBS 115/24V  | LED-Blink-Brems-Schlussleuchte<br>LED DI / Stop / Tail Light           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 4/3/3 W           | PMMA / PC/ ABS                        | Kabel 500 mm<br>cable 500 mm   | 0,30 kg           | -20/+50°C<br>IP 67       | 12       | E13-35099              |
|                 | <b>10.1043.600</b><br>BBS 115/24V  | LED-Blink-Brems-Schlussleuchte<br>LED DI / Stop / Tail Light           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 4/3/3 W           | PMMA / PC/ ABS                        | Kabel 2500 mm<br>cable 2500 mm | 0,40 kg           | -20/+50°C<br>IP 67       | 8        | E13-35099              |
|                 | <b>13.3117.000</b><br>SNWS 115/12V | LED-Nebelschl.-Rückfahr-Schlussleu.<br>LED Fog/ Reversing / Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 5/3/5 W           | PMMA / PC/ ABS                        | Kabel 500 mm<br>cable 500 mm   | 0,30 kg           | -20/+50°C<br>IP 67       | 12       | E13-35099<br>E13-35862 |
|                 | <b>13.3117.500</b><br>SNWS 115/24V | LED-Nebelschl.-Rückfahr-Schlussleu.<br>LED Fog/ Reversing / Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 5/3/5 W           | PMMA / PC/ ABS                        | Kabel 500 mm<br>cable 500 mm   | 0,30 kg           | -20/+50°C<br>IP 67       | 12       | E13-35099<br>E13-35862 |
|                 | <b>13.3117.600</b><br>SNWS 115/24V | LED-Nebelschl.-Rückfahr-Schlussleu.<br>LED Fog/ Reversing / Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 5/3/5 W           | PMMA / PC/ ABS                        | Kabel 2500 mm<br>cable 2500 mm | 0,40 kg           | -20/+50°C<br>IP 67       | 8        | E13-35099<br>E13-35862 |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                     |                                                      |                                       |      |          |                                   |                                    |         |                    |   |     |
|--|-------------------------------------|------------------------------------------------------|---------------------------------------|------|----------|-----------------------------------|------------------------------------|---------|--------------------|---|-----|
|  | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>25 mA (=const.) | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500 mm<br>cable 2x1500 mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV |
|  | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>20 mA (=const.) | 24 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500 mm<br>cable 2x1500 mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV |



## LED-LEUCHTEN-SYSTEM L790 \* LED LIGHTING SYSTEM L790

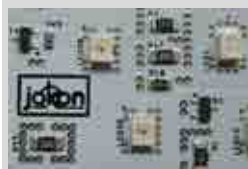
Neuentwickelte Lichttechnik verfügbar als modulare Rundleuchtenserie mit dem Durchmesser von 122mm. Homogenes Lichtbild durch die besondere Oberfläche der Streuscheiben. Einfaches Befestigungskonzept: Eine am Fahrzeug angebrachte Adapterplatte ermöglicht eine Montage der Leuchte von außen mit einem einzigen Handgriff. (Optional: Stehbolzen). In 12V als auch 24V Varianten erhältlich.

Latest lighting technology available as modular series of round shaped light with a diameter of 122mm. The special structure of the surface of the optical lense creates an homogeneous light pattern. Quick & Easy fixture: an adapter plate screwed on the vehicle allows to mount the light from the exterior (optional: stud bolts). Available in 12V or 24V variants.

## Merkmale \* Features



- Charakteristisches Nachtdesign und innovative Technik
- characteristic night design and innovative technology



- Marken LEDs von Osram für lange Lebensdauer
- High-Grade LEDs from Osram for long life time



- Innovatives Befestigungskonzept
- innovative fixation concept

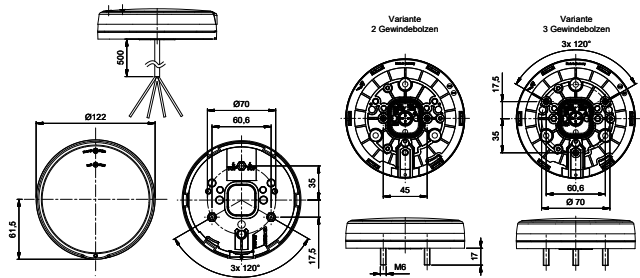


- Mit Microfaser-Membran für optimalen thermodyn. Ausgleich
- with microfibre membrane for optimal thermodynamic balance



- Kombinierbar mit LED-Kontrollbox für Blinkerausfallkontrolle
- combination with device for LED failure control of direction indicator

## Technische Daten \* Technical Data



- LED-Multifunktionsleuchten mit Totalreflektionsoptik
- Aufbau-Montage mit Bajonett-System (alternativ mit Gewindebolzen)
- Montage und Demontage durch Inbusschlüssel Verriegelung
- 2 Dichtungen für optimale Wasserdichtigkeit
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- EMV Zulassung
- Blinker: mit LDC (LED-Defect-Contr.); kombinierb. mit LK Kontrollbox

- LED multifunction light with total-reflexion optic
- surface mounting with bayonet joint (alternatively with bolts)
- quick assembly and disassembly through locking pin
- double sealed for optimal waterproofness
- incl. hidden membrane to balance thermodynamics
- EMC approval
- DI function: with LDC (LED-Defect-Control) for combination with LK control device

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                                                      | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------|------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|------------------------|
|                 | <b>10.0054.500</b><br>BBS 790/12V  | LED-Blink-Brems-Schlussl.<br>LED DI / Stop / Tail Light                          | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 4 / 3 / 1 W       | PC / PC-ABS<br>rot, klar - red, clear | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34661<br>E13-34665 |
|                 | <b>10.0054.000</b><br>BBS 790/24V  | LED-Blink-Brems-Schlussl.<br>LED DI / Stop / Tail Light                          | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 4 / 3 / 1 W       | PC / PC-ABS<br>rot, klar - red, clear | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34661<br>E13-34665 |
|                 | <b>10.0054.800</b><br>BBSR 790/12V | LED-Blink-Brems-Schlussl.-Rückstr.<br>LED DI / Stop / Tail Light-Reflex-Ref.     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 4 / 3 / 1 W       | PC / PC-ABS<br>rot, klar - red, clear | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34661<br>E13-34665 |
|                 | <b>10.0054.300</b><br>BBSR 790/24V | LED-Blink-Brems-Schlussl.-Rückstr.<br>LED DI / Stop / Tail Light-Reflex-Ref.     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 4 / 3 / 1 W       | PC / PC-ABS<br>rot, klar - red, clear | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34661<br>E13-34665 |
|                 | <b>13.3115.500</b><br>SNW 790/12V  | LED-Nebelschluss / Rückf.<br>LED Fog / Reversing Light                           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 5W / 4W           | PC / PC-ABS<br>rot, klar - red, clear | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34811<br>E13-34810 |
|                 | <b>13.3115.000</b><br>SNW 790/24V  | LED-Nebelschluss / Rückf.<br>LED Fog / Reversing Light                           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 5W / 4W           | PMMA / ABS<br>rot, klar / red-clear   | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34811<br>E13-34810 |
|                 | <b>13.3116.000</b><br>SNWR 790/12V | LED-Nebelschluss / Rückf. / Rückstr.<br>LED Fog / Reversing Light / Reflex Refl. | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 5W / 4W           | PC / PC-ABS<br>rot, klar - red, clear | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34811<br>E13-34810 |
|                 | <b>13.3116.500</b><br>SNWR 790/24V | LED-Nebelschluss / Rückf. / Rückstr.<br>LED Fog / Reversing Light / Reflex Refl. | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 5W / 4W           | PC / PC-ABS<br>rot, klar - red, clear | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34811<br>E13-34810 |

## Zubehör / Ersatzteile \* Accessories / Spare parts

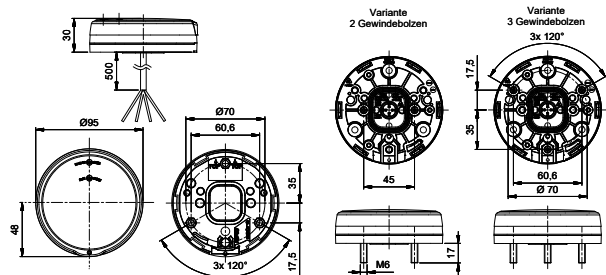
|  |                                     |                                                      |                                        |      |          |                                   |                                    |         |                    |   |     |
|--|-------------------------------------|------------------------------------------------------|----------------------------------------|------|----------|-----------------------------------|------------------------------------|---------|--------------------|---|-----|
|  | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>25 mA (I=const.) | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500 mm<br>cable 2x1500 mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV |
|  | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>20 mA (I=const.) | 24 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500 mm<br>cable 2x1500 mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV |

## LED-LEUCHTEN-SYSTEM L780 \* LED LIGHTING SYSTEM L780

Neuentwickelte Lichttechnik verfügbar als modulare Rundleuchtenserie mit dem Durchmesser von 95mm. Homogenes Lichtbild durch die besondere Oberfläche der Streuscheiben. In 12V als auch 24V Varianten erhältlich.

Latest lighting technology available as modular series of round shaped light with a diameter of 95mm. The special structure of the surface of the optical lense creates an homogeneous light pattern. Available in 12V or 24V variants.

## Technische Daten \* Technical Data



- LED-Multifunktionsleuchten mit Totalreflektionsoptik
- Aufbau-Montage mit Bajonett-System (alternativ mit Gewindebolzen)
- Montage und Demontage durch Inbusschlüssel Verriegelung
- 2 Dichtungen für optimale Wasserdichtigkeit
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- EMV Zulassung
- Blinker: mit LDC (LED-Defect-Contr.); kombinierb. mit LK Kontrollbox

- LED multifunction light with total-reflection optic
- surface mounting with bayonet joint (alternatively with bolts)
- quick assembly and disassembly through locking pin
- double sealed for optimal waterproofness
- incl. hidden membrane to balance thermodynamics
- EMC approval
- DI function: with LDC (LED-Defect-Control) for combination with LK control device

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                                       | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour     | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------|--------------------------------------|-------------------------------------------------------------------|------------------------------------------------|-------------------|-------------------|-------------------------------------------|------------------------------|-------------------|--------------------------|----------|------------------------|
|                 | <b>10.0053.000</b><br>BBS 780/12V    | LED-Blink-Brems-Schlussl.<br>LED DI / Stop / Tail Light           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 4 / 3 / 1 W       | PC / PC-ABS<br>rot, klar - red, clear     | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34660<br>E13-34664 |
|                 | <b>10.0053.500</b><br>BBS 780/24V    | LED-Blink-Brems-Schlussl.<br>LED DI / Stop / Tail Light           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 4 / 3 / 1 W       | PC / PC-ABS<br>rot, klar / red, clear     | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34660<br>E13-34664 |
|                 | <b>10.0061.000</b><br>BRS 780/12V    | LED-Brems-Schlussleuchte<br>LED Stop / Tail Light                 | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 3 / 1 W           | PC / PC-ABS<br>klar-schwarz / clear-black | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34664              |
|                 | <b>10.0061.500</b><br>BRS 780/24V    | LED-Brems-Schlussleuchte<br>LED Stop / Tail Light                 | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 3 / 1 W           | PC / PC-ABS<br>klar-schwarz / clear-black | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34664              |
|                 | <b>13.1067.000</b><br>BL 780/12V     | LED-Blinker / Kat. 2a<br>LED DI / Cat. 2a                         | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 3 W               | PC / PC-ABS<br>klar-schwarz / clear-black | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34661<br>E13-13971 |
|                 | auf Anfrage/on request<br>BL 780/24V | LED-Blinker / Kat. 2a<br>LED DI / Cat. 2a                         | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 3 W               | PC / PC-ABS<br>klar-schwarz / clear-black | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34661              |
|                 | <b>13.3114.000</b><br>SNW 780/12V    | LED-Nebelschluss / Rückf.<br>LED Fog / Reversing Light            | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12V               | 6W / 4W           | PC / PC-ABS<br>rot, klar - red, clear     | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34809<br>E13-34808 |
|                 | <b>13.3114.500</b><br>SNW 780/24V    | LED-Nebelschluss / Rückf.<br>LED Fog / Reversing Light            | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24V               | 6W / 5W           | PC / PC-ABS<br>rot, klar - red, clear     | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34809<br>E13-34808 |
|                 | <b>13.3040.000</b><br>SN 780/12V     | LED-Nebelschlussleuchte<br>LED Fog Light                          | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 6W                | PC / PC-ABS<br>klar - clear               | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34809              |
|                 | <b>13.3040.500</b><br>SN 780/24V     | LED-Nebelschlussleuchte<br>LED Fog Light                          | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 6W                | PC / PC-ABS<br>klar - clear               | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34809              |
|                 | <b>13.3043.000</b><br>SNR 780/12V    | LED-Nebelschluss-Rückstr.<br>LED Fog / Reflex Reflector           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 6W                | PC / PC-ABS<br>klar - clear               | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34809              |
|                 | <b>13.3043.500</b><br>SNR 780/24V    | LED-Nebelschluss-Rückstr.<br>LED Fog / Reflex Reflector           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 6W                | PC / PC-ABS<br>klar - clear               | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34809              |
|                 | <b>13.6043.000</b><br>W 780/12V      | LED-Rückfahrleuchte<br>LED Reversing Light                        | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 4W                | PC / PC-ABS<br>klar-schwarz / clear-black | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34810              |
|                 | <b>13.6043.500</b><br>W 780/24V      | LED-Rückfahrleuchte<br>LED Reversing Light                        | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 4W                | PC / PC-ABS<br>klar-schwarz / clear-black | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34810              |
|                 | <b>13.6045.000</b><br>WR 780/12V     | LED-Rückfahrleuchte-Rückstr.<br>LED Reversing Light- Reflex refl. | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 4W                | PC / PC-ABS<br>rot, klar - red, clear     | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34810              |
|                 | <b>13.6045.500</b><br>WR 780/24V     | LED-Rückfahrleuchte-Rückstr.<br>LED Reversing Light- Reflex refl. | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 4W                | PC / PC-ABS<br>rot, klar - red, clear     | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34810              |

Zusatz-Information:  
Additional Information:

weitere Ausführungen auf Anfrage  
further models on request

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                     |                                                      |                                          |      |          |                                   |                                  |         |                    |   |     |
|--|-------------------------------------|------------------------------------------------------|------------------------------------------|------|----------|-----------------------------------|----------------------------------|---------|--------------------|---|-----|
|  | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Threshold:<br>25 mA (I=const.) | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV |
|  | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Threshold:<br>20 mA (I=const.) | 24 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV |

## LED-LEUCHTEN-SYSTEM L770 \* LED LIGHTING SYSTEM L770

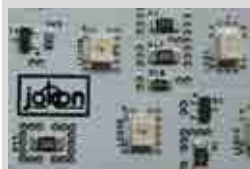
Neuentwickelte Lichttechnik verfügbar als modulare Rundleuchterserie mit dem Durchmesser von 65mm. Homogenes Lichtbild durch die besondere Oberfläche der Streuscheiben. Einfaches Befestigungskonzept: Eine am Fahrzeug angebrachte Adapterplatte ermöglicht eine Montage der Leuchte von außen mit einem einzigen Handgriff. (Optional: Stehbolzen). In 12V als auch 24V Varianten erhältlich.

Latest lighting technology available as modular series of round shaped light with a diameter of 65mm. The special structure of the surface of the optical lense creates an homogeneous light pattern. Quick & Easy fixture: an adapter plate screwed on the vehicle allows to mount the light from the exterior (optional: stud bolts). Available in 12V or 24V variants.

## Merkmale \* Features



- Charakteristisches Nachtdesign und innovative Technik
- characteristic night design and innovative technology



- Marken LEDs von Osram für lange Lebensdauer
- High-Grade LEDs from Osram for long life time



- Innovatives Befestigungskonzept
- innovative fixation concept

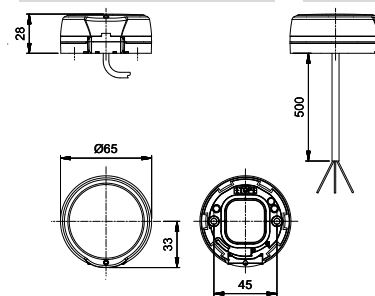


- Mit Microfaser-Membran für optimalen thermodyn. Ausgleich
- with microfibre membrane for optimal thermodynamic balance



- Kombinierbar mit LED-Kontrollbox für Blinkerausfallkontrolle
- combination with device for LED failure control of direction indicator

## Technische Daten \* Technical Data



- LED-Multifunktionsleuchten mit Totalreflektionsoptik
- Aufbau-Montage mit Bajonett-System (alternativ mit Gewindebolzen)
- Montage und Demontage durch Inbusschlüssel Verriegelung
- 2 Dichtungen für optimale Wasserdichtigkeit
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- EMV Zulassung
- Blinker: mit LDC (LED-Defect-Contr.); kombinierb. mit LK Kontrollbox

- LED multifunction light with total-reflection optic
- surface mounting with bayonet joint (alternatively with bolts)
- quick assembly and disassembly through locking pin
- double sealed for optimal waterproofness
- incl. hidden membrane to balance thermodynamics
- EMC approval
- DI function: with LDC (LED-Defect-Control) for combination with LK control device

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                       | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------|-----------------------------------|---------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|------------------------|
|                 | <b>10.0052.000</b><br>BRS 770/12V | LED-Brems-Schlussleuchte<br>LED Stop / Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 3 / 1 W           | PC / PC-ABS<br>rot, klar / red-clear  | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34663              |
|                 | <b>10.0052.500</b><br>BRS 770/24V | LED-Brems-Schlussleuchte<br>LED Stop / Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 3 / 1 W           | PC / PC-ABS<br>rot, klar / red-clear  | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34663              |
|                 | <b>10.0052.300</b><br>BRS 770/12V | LED-Brems-Schlussleuchte<br>LED Stop / Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 3 / 1 W           | PC / PC-ABS<br>klar / clear           | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34663              |
|                 | <b>10.0052.800</b><br>BRS 770/24V | LED-Brems-Schlussleuchte<br>LED Stop / Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 3 / 1 W           | PC / PC-ABS<br>klar / clear           | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34663              |
|                 | <b>13.1066.000</b><br>BL 770/12V  | LED-Blinker / Kat. 2a<br>LED DI / Cat. 2a         | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 2 W               | PC / PC-ABS<br>klar / clear           | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34660<br>E13-14418 |
|                 | <b>13.1066.500</b><br>BL 770/24V  | LED-Blinker / Kat. 2a<br>LED DI / Cat. 2a         | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 4 W               | PC / PC-ABS<br>klar / clear           | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34660<br>E13-14418 |
|                 | <b>13.3039.000</b><br>SN 770/12V  | LED-Nebelschlussleuchte<br>LED Fog Light          | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 3 W               | PC / PC-ABS<br>klar / clear           | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34807<br>E13-14418 |
|                 | <b>13.3039.500</b><br>SN 770/24V  | LED-Nebelschlussleuchte<br>LED Fog Light          | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 5 W               | PC / PC-ABS<br>klar / clear           | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34807<br>E13-14418 |
|                 | <b>13.6042.000</b><br>W 770/12V   | LED-Rückfahrleuchte<br>LED Reversing Light        | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 4 W               | PC / PC-ABS<br>klar / clear           | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34808              |
|                 | <b>13.6042.500</b><br>W 770/24V   | LED-Rückfahrleuchte<br>LED Reversing Light        | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 6 W               | PC / PC-ABS<br>klar / clear           | Kabel 500 mm<br>cable 500 mm | 0,28 kg           | -20/+50°C<br>IP 67       | 12       | E13-34808              |
|                 | auf Anfrage/on request<br>R 770   | Rückstrahler<br>Reflex Reflector                  |                                                |                   |                   | PC / PC-ABS<br>rot / red              |                              |                   |                          |          | E1-4381                |

## Zubehör / Ersatzteile \* Accessories / Spare parts

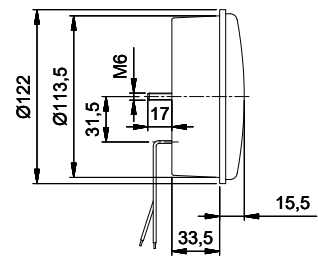
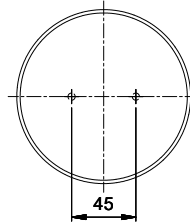
|  |                                     |                                                      |                                         |      |          |                                   |                                    |         |                    |   |     |
|--|-------------------------------------|------------------------------------------------------|-----------------------------------------|------|----------|-----------------------------------|------------------------------------|---------|--------------------|---|-----|
|  | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Threshold<br>25 mA (I=const.) | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500 mm<br>cable 2x1500 mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV |
|  | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Threshold<br>20 mA (I=const.) | 24 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500 mm<br>cable 2x1500 mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV |



## LED-LEUCHTEN-SYSTEM 730 \* LED LIGHTING SYSTEM 730

Die LED-Leuchten der Serie 730/735 sind anschlussfertig, wasserdicht vergossen und verfügen über ein Anschlusskabel von 500 mm Länge. Die Leuchten sind für den Einbau vorgesehen, sind aber wegen ihrer geringen Einbautiefe (33,5 mm) auch für den Aufbau geeignet.

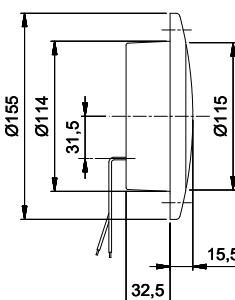
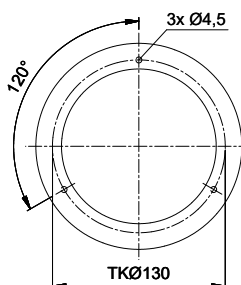
LED Lights type 730/735 are ready for plug-in, they are sealed in a waterproof manner and are equipped with a connecting cable of 500 mm. They are used for flush fitting, but because of their small installation depth (33,5 mm) they can be used for surface mounting as well.



| <div><div>· Wasserdicht vergossen und anschlussfertig</div><div>· Einbau- oder Aufbaumontage</div></div> <div><div>· sealed in a waterproof manner and ready for plug-in</div><div>· flush fitting or surface mounting</div></div> |                                    |                                                                 |                                                                                                    |                   |                   |                                       |                                        |                   |                          |          |                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|----------------------------------------|-------------------|--------------------------|----------|----------------------|--|
| Bild<br>Picture                                                                                                                                                                                                                    | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                                     | Merkmale<br>Features                                                                               | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |  |
|                                                                                                                                                                                                                                    | <b>10.0050.000</b><br>BBS 730b/12V | LED-Blink-Brms-Schlussl.<br><i>LED DI / Stop / Tail Light</i>   |                                                                                                    | 12 V              | 4 / 3 / 1 W       | PMMA / ABS<br>rot, klar - red, clear  | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E1-4231              |  |
|                                                                                                                                                                                                                                    | <b>10.0051.000</b><br>BBS 730b/24V | LED-Blink-Brms-Schlussl.<br><i>LED DI / Stop / Tail Light</i>   |                                                                                                    | 24 V              | 4 / 3 / 1 W       | PMMA / ABS<br>rot, klar/ red-clear    | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E1-4231              |  |
|                                                                                                                                                                                                                                    | <b>10.0016.000</b><br>BRS 730/12V  | LED-Brms-Schlussleuchte<br><i>LED Stop / Tail Light</i>         |                                                                                                    | 12 V              | 3 / 0,5 W         | PMMA / ABS<br>rot - red               | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06014             |  |
|                                                                                                                                                                                                                                    | <b>10.0017.000</b><br>BRS 730/24V  | LED-Brms-Schlussleuchte<br><i>LED Stop / Tail Light</i>         |                                                                                                    | 24 V              | 3 / 0,5 W         | PMMA / ABS<br>rot - red               | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06014             |  |
|                                                                                                                                                                                                                                    | <b>13.1024.000</b><br>BL 730/12V   | LED-Blinker / Kat. 2a<br><i>LED DI / Cat. 2a</i>                |                                                                                                    | 12 V              | 3 W               | PMMA / ABS<br>gelb - yellow           | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06015             |  |
|                                                                                                                                                                                                                                    | <b>13.1025.000</b><br>BL 730/24V   | LED-Blinker / Kat. 2a<br><i>LED DI / Cat. 2a</i>                |                                                                                                    | 24 V              | 3 W               | PMMA / ABS<br>gelb - yellow           | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06015             |  |
|                                                                                                                                                                                                                                    | <b>13.3017.000</b><br>SN 730/12V   | LED-Nebelschlussleuchte<br><i>LED Fog Light</i>                 |                                                                                                    | 12 V              | 4 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06017             |  |
|                                                                                                                                                                                                                                    | <b>13.3018.000</b><br>SN 730/24V   | LED-Nebelschlussleuchte<br><i>LED Fog Light</i>                 |                                                                                                    | 24 V              | 4 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06017             |  |
|                                                                                                                                                                                                                                    | <b>13.3020.000</b><br>SNR 730/12V  | LED-Nebelschluss/ Rückstr.<br><i>LED Fog Light / refl.</i>      |                                                                                                    | 12 V              | 4 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06012             |  |
|                                                                                                                                                                                                                                    | <b>13.3021.000</b><br>SNR 730/24V  | LED-Nebelschluss/ Rückstr.<br><i>LED Fog Light / refl.</i>      |                                                                                                    | 24 V              | 4 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06012             |  |
|                                                                                                                                                                                                                                    | <b>13.6015.000</b><br>W 730/12V    | LED-Rückfahrscheinleuchte<br><i>LED Reversing Light</i>         |                                                                                                    | 12 V              | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06016             |  |
|                                                                                                                                                                                                                                    | <b>13.6016.000</b><br>W 730/24V    | LED-Rückfahrscheinleuchte<br><i>LED Reversing Light</i>         |                                                                                                    | 24 V              | 3 W               | PMMA / ABS<br>klar / clear            | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06016             |  |
|                                                                                                                                                                                                                                    | <b>13.6018.000</b><br>WR 730/12V   | LED-Rückfahrl. / Rückstr.<br><i>LED Reversing Light / refl.</i> |                                                                                                    | 12 V              | 3 W               | PMMA / ABS<br>klar, rot - clear, red  | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06013             |  |
|                                                                                                                                                                                                                                    | <b>13.6019.000</b><br>WR 730/24V   | LED-Rückfahrl. / Rückstr.<br><i>LED Reversing Light / refl.</i> |                                                                                                    | 24 V              | 3 W               | PMMA / ABS<br>klar, rot - clear, red  | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06013             |  |
|                                                                                                                                                                                                                                    | <b>13.3110.000</b><br>SNW 730/12V  | LED-Nebelschluss / Rückf.<br><i>LED Fog / Reversing Light</i>   |                                                                                                    | 12 V              | 3 / 4 W           | PMMA / ABS<br>klar / clear            | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06046             |  |
|                                                                                                                                                                                                                                    | <b>13.3111.000</b><br>SNW 730/24V  | LED-Nebelschluss / Rückf.<br><i>LED Fog / Reversing Light</i>   |                                                                                                    | 24 V              | 3 / 4 W           | PMMA / ABS<br>klar / clear            | Kabel 500 mm<br><i>cabl 500 mm</i>     | 0,22 kg           | IP 67                    | 10       | E2-06046             |  |
| Zubehör / Ersatzteile * Accessories / Spare parts                                                                                                                                                                                  |                                    |                                                                 |                                                                                                    |                   |                   |                                       |                                        |                   |                          |          |                      |  |
|                                                                                                                                                                                                                                    | <b>62.3001.032</b><br>LK 100-3/12V | LED-Kontrollbox (Blinker)<br><i>LED Control Device (DI)</i>     | Schaltsw./Thresholt<br>45 mA (I=const.)                                                            | 12 V              | 2 x 21 W          | Aluminium / PU<br>schwarz - black     | Kabel 2x1500mm<br><i>cabl 2x1500mm</i> | 0,40 kg           | -20/+50°C<br>IP 67       | 10       | EMV / EMC            |  |
| Zusatz-Information:<br>Additional Information:                                                                                                                                                                                     |                                    |                                                                 | geeignet für Leuchte: BBS 730/12 2a<br>suitable for light: BBS 730/12 2a                           |                   |                   |                                       |                                        |                   |                          |          |                      |  |
|                                                                                                                                                                                                                                    | <b>62.3002.022</b><br>LK 100-2/24V | LED-Kontrollbox (Blinker)<br><i>LED Control Device (DI)</i>     | Schaltsw./Thresholt<br>50mA bei /at 24V                                                            | 24 V              | 2 x 21 W          | Aluminium / PU<br>schwarz - black     | Kabel 2x1500mm<br><i>cabl 2x1500mm</i> | 0,40 kg           | -20/+50°C<br>IP 67       | 1        | EMV / EMC            |  |
| Zusatz-Information:<br>Additional Information:                                                                                                                                                                                     |                                    |                                                                 | geeignet für Leuchte: BBS 730/24V; BL 730/24V 2a<br>suitable for light: BBS 730/24V; BL 730/24V 2a |                   |                   |                                       |                                        |                   |                          |          |                      |  |



**LED-LEUCHTEN-SYSTEM 735 mit ZIERRING CHROMBRILLIANT \* LED LIGHTING SYSTEM 735 with CHROME DECORATION RIM**



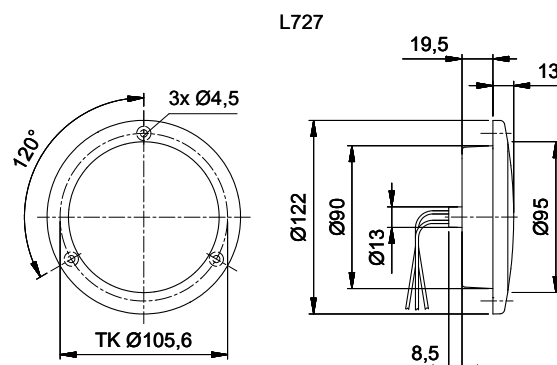
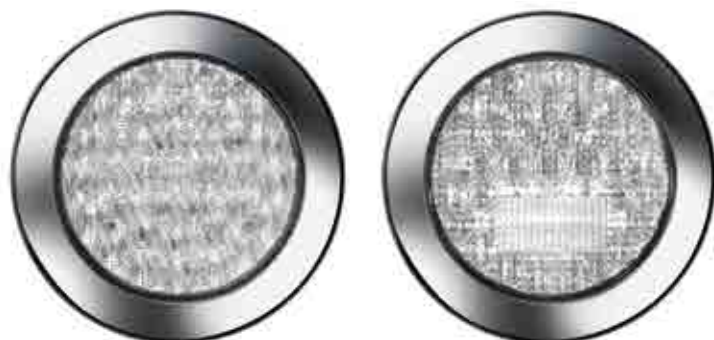
| <div>· Wasserdicht vergossen und anschlussfertig<br/>· Zierring - chrombrilliant</div> <div>· sealed in a waterproof manner and ready for plug-in<br/>· chrome decoration rim</div> |                                    |                                                                 |                                                                                                                                                                                                                                                                                              |                   |                   |                                       |                                  |                   |                          |          |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|----------------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture                                                                                                                                                                     | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                                     | Merkmale<br>Features                                                                                                                                                                                                                                                                         | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection          | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|                                                                                                    | <b>10.0055.000</b><br>BBS 735b/12V | LED-Blink-Brems-Schluss.<br><i>LED DI / Stop / Tail Light</i>   |    W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 4 / 3 / 1 W       | PMMA / ABS<br>rot, klar / red, clear  | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E1-4231              |
|                                                                                                                                                                                     | <b>10.0056.000</b><br>BBS 735b/24V | LED-Blink-Brems-Schluss.<br><i>LED DI / Stop / Tail Light</i>   |    W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 4 / 3 / 1 W       | PMMA / ABS<br>rot, klar/ red-clear    | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E1-4231              |
|                                                                                                   | <b>10.0058.000</b><br>BRS 735/24V  | LED-Brems-Schlussleuchte<br><i>LED Stop / Tail Light</i>        |   W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                                   | 24 V              | 3 / 0,5 W         | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E2-06014             |
|                                                                                                  | <b>13.1063.000</b><br>BL 735/24V   | LED-Blinker / Kat. 2a<br><i>LED DI / Cat. 2a</i>                |  W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                                                                                                                   | 24 V              | 3 W               | PMMA / ABS<br>gelb - yellow           | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E2-06015             |
|                                                                                                  | <b>13.3035.000</b><br>SN 735/12V   | LED-Nebelschlussleuchte<br><i>LED Fog Light</i>                 |  W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                                                                                                                   | 12 V              | 4 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E2-06017             |
|                                                                                                                                                                                     | <b>13.3036.000</b><br>SN 735/24V   | LED-Nebelschlussleuchte<br><i>LED Fog Light</i>                 |  W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                                                                                                                   | 24 V              | 4 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E2-06017             |
|                                                                                                  | <b>13.3037.000</b><br>SNR 735/12V  | LED-Nebelschluss/ Rückstr.<br><i>LED Fog Light / refl.</i>      |   W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                               | 12 V              | 4 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E2-06012             |
|                                                                                                                                                                                     | <b>13.3038.000</b><br>SNR 735/24V  | LED-Nebelschluss/ Rückstr.<br><i>LED Fog Light / refl.</i>      |   W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                               | 24 V              | 4 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E2-06012             |
|                                                                                                  | <b>13.6038.000</b><br>W 735/12V    | LED-Rückfahrleuchte<br><i>LED Reversing Light</i>               |  W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                                                                                                                   | 12 V              | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E2-06016             |
|                                                                                                                                                                                     | <b>13.6039.000</b><br>W 735/24V    | LED-Rückfahrleuchte<br><i>LED Reversing Light</i>               |  W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                                                                                                                   | 24 V              | 3 W               | PMMA / ABS<br>klar / clear            | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E2-06016             |
|                                                                                                  | <b>13.6040.000</b><br>WR 735/12V   | LED-Rückfahrl. / Rückstr.<br><i>LED Reversing Light / refl.</i> |   W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                               | 12 V              | 3 W               | PMMA / ABS<br>klar, rot - clear, red  | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E2-06013             |
|                                                                                                                                                                                     | <b>13.6041.000</b><br>WR 735/24V   | LED-Rückfahrl. / Rückstr.<br><i>LED Reversing Light / refl.</i> |   W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                               | 24 V              | 3 W               | PMMA / ABS<br>klar, rot - clear, red  | Kabel 500 mm<br>cable 500 mm     | 0,24 kg           | IP 67                    | 10       | E2-06013             |
|                                                                                                  | <b>13.3108.000</b><br>SNW 735/12V  | LED-Nebelschluss / Rückf.<br><i>LED Fog / Reversing Light</i>   |   W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                               | 12 V              | 3 / 4 W           | PMMA / ABS<br>klar / clear            | Kabel 500 mm<br>cable 500 mm     | 0,27 kg           | IP 67                    | 10       | E2-06046             |
|                                                                                                                                                                                     | <b>13.3109.000</b><br>SNW 735/24V  | LED-Nebelschluss / Rückf.<br><i>LED Fog / Reversing Light</i>   |   W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                               | 24 V              | 3 / 4 W           | PMMA / ABS<br>klar / clear            | Kabel 500 mm<br>cable 500 mm     | 0,27 kg           | IP 67                    | 10       | E2-06046             |
| Zubehör / Ersatzteile * Accessories / Spare parts                                                                                                                                   |                                    |                                                                 |                                                                                                                                                                                                                                                                                              |                   |                   |                                       |                                  |                   |                          |          |                      |
|                                                                                                  | <b>62.3001.032</b><br>LK 100-3/12V | LED-Kontrollbox (Blinker)<br><i>LED Control Device (DI)</i>     | Schaltsw/Thresholt<br>45 mA (I=const.)                                                                                                                                                                                                                                                       | 12 V              | 2 x 21 W          | Aluminium / PU<br>schwarz - black     | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg           | -20/+50°C<br>IP 67       | 10       | EMV / EMC            |
|                                                                                                                                                                                     |                                    | Zusatz-Information:<br>Additional Information:                  | geeignet für Leuchte: BBS 735/12V 2a<br>suitable for light: BBS 735/12V 2a                                                                                                                                                                                                                   |                   |                   |                                       |                                  |                   |                          |          |                      |
|                                                                                                  | <b>62.3002.022</b><br>LK 100-2/24V | LED-Kontrollbox (Blinker)<br><i>LED Control Device (DI)</i>     | Schaltsw/Thresholt<br>50mA bei 24V                                                                                                                                                                                                                                                           | 24 V              | 2 x 21 W          | Aluminium / PU<br>schwarz - black     | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg           | -20/+50°C<br>IP 67       | 1        | EMV / EMC            |
|                                                                                                                                                                                     |                                    | Zusatz-Information:<br>Additional Information:                  | geeignet für Leuchte: BL 735/24V 2a; BBS 735/24V<br>suitable for light: BL 735/24V 2a; BBS 735/24V                                                                                                                                                                                           |                   |                   |                                       |                                  |                   |                          |          |                      |

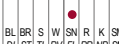
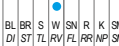


LED-LEUCHTEN - SYSTEM 727 > mit ZIERRING CHROMBRILIANT \* LED LIGHTING SYSTEM 727 > with CHROME DECORATION RIM

Die LED-Leuchten der Serie 727 sind anschlussfertig, wasserdicht vergossen und verfügen über ein Anschlusskabel von 500 mm Länge. Sie sind für den Einbau vorgesehen. Der Chromring verdeckt die darunter befindlichen 3 Öffnungen für die Verschraubung.

LED Lights type 727 are ready for plug-in, they are sealed in a waterproof manner and are equipped with a connecting cable of 500 mm. They are used for flush fitting. The chrome ring covers the 3 openings underneath for the screw connection.



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                                    | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|   | <b>10.0043.500</b><br>BBS 727w/12V | LED-Blink-Brems-Schlussl.<br><i>LED DI / Stop / Tail Light</i> |    | 12 V              | 3 / 4 / 0,5 W     | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-07013             |
|                                                                                     | <b>10.0044.500</b><br>BBS 727w/24V | LED-Blink-Brems-Schlussl.<br><i>LED DI / Stop / Tail Light</i> |   | 24 V              | 3 / 4 / 0,5 W     | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-07013             |
|  | <b>10.0040.500</b><br>BRS 727w/12V | LED-Brems-Schlussl.<br><i>LED Stop / Tail Light</i>            |  | 12 V              | 4 / 0,5 W         | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-06053             |
|                                                                                     | <b>10.0042.500</b><br>BRS 727w/24V | LED-Brems-Schlussl.<br><i>LED Stop / Tail Light</i>            |  | 24 V              | 4 / 0,5 W         | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-06053             |
|  | <b>13.1054.000</b><br>BL 727w/12V  | LED-Blinkleuchte / Kat. 2a<br><i>LED DI / Cat. 2a</i>          |  | 12 V              | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-020711            |
|                                                                                     | <b>13.1055.000</b><br>BL 727w/24V  | LED-Blinkleuchte / Kat. 2a<br><i>LED DI / Cat. 2a</i>          |  | 24 V              | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-020711            |
|  | <b>13.3033.500</b><br>SN 727w/12V  | LED-Nebelschluss<br><i>LED Fog Light</i>                       |  | 12 V              | 4 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-06056             |
|                                                                                     | <b>13.3034.500</b><br>SN 727w/24V  | LED-Nebelschluss<br><i>LED Fog Light</i>                       |  | 24 V              | 4 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-06056             |
|  | <b>13.3106.500</b><br>SNW 727w/12V | LED-Nebelschluss / Rückf<br><i>LED Fog / Reversing Light</i>   |  | 12 V              | 4 / 3 W           | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-07012             |
|                                                                                     | <b>13.3107.500</b><br>SNW 727w/24V | LED-Nebelschluss / Rückf<br><i>LED Fog / Reversing Light</i>   |  | 24 V              | 4 / 3 W           | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-07012             |
|  | <b>13.6031.000</b><br>W 727w/12V   | LED-Rückfahrluchte<br><i>LED Reversing Light</i>               |  | 12 V              | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-06052             |
|                                                                                     | <b>13.6032.000</b><br>W 727w/24V   | LED-Rückfahrluchte<br><i>LED Reversing Light</i>               |  | 24 V              | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | IP 67                    | 40       | E2-06052             |

## Zubehör / Ersatzteile \* Accessories / Spare parts

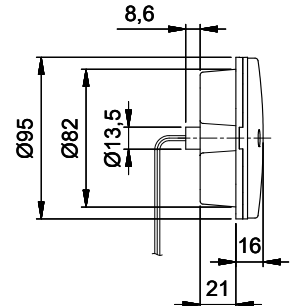
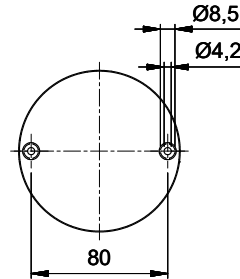
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|-------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------|-------------------------------------------------------------------|------|----------|-----------------------------------|----------------------------------|---------|--------------------|----|-----------|
|  | <b>62.3001.032</b><br>LK 100-3/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltstrom/Threshold<br>45 mA (I=const.)                         | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 10 | EMV / EMC |
| Zusatz-Information:<br>Additional Information:                                      |                                    |                                                      | geeignet für Leuchte: BL 727/12V<br>suitable for light: BL 727/12 |      |          |                                   |                                  |         |                    |    |           |



## LED-LEUCHTEN-SYSTEM 725 \* LED LIGHTING SYSTEM 725

Die Leuchten der Serie 725 sind anschlussfertig, wasserdicht vergossen und verfügen über ein Anschlusskabel von 500 mm. Sie sind mittels einem in verschiedenen Farben lieferbaren Zierring auf einen Durchmesser von 122 mm vergrößerbar. Die Leuchten sind für den Einbau vorgesehen, sind aber wegen ihrer geringen Einbautiefe auch für den Aufbau geeignet.

LED Lights type 725 are ready for plug-in, they are sealed in a waterproof manner and are equipped with a connecting cable of 500 mm. They can be extended by a decoration rim to a diameter of 122 mm available in different colours. These lights are used for flush fitting, but because of their small installation depth they can be used for surface mounting as well.



| · Wasserdicht vergossen und anschlussfertig<br>· Einbau- oder Aufbaumontage |                                   |                                                               |                                                                   | · sealed in a waterproof manner and ready for plug-in<br>· flush fitting or surface mounting |                   |                                       |                              |                   |                          |          |                      |
|-----------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture                                                             | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                                   | Merkmale<br>Features                                              | Spann.<br>Voltage                                                                            | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|                                                                             | <b>10.0034.000</b><br>BBS 725/12V | LED-Blink-Brems-Schluss.<br><i>LED DI / Stop / Tail Light</i> | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 12 V                                                                                         | 3 / 3 / 0,3 W     | PMMA / ABS<br>rot, klar - red, clear  | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07043             |
|                                                                             | <b>10.0035.000</b><br>BBS 725/24V | LED-Blink-Brems-Schluss.<br><i>LED DI / Stop / Tail Light</i> | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 24 V                                                                                         | 3 / 3 / 0,3 W     | PMMA / ABS<br>rot, klar - red, clear  | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07043             |
|                                                                             | <b>10.0038.000</b><br>BLS 725/12V | LED-Blink-Schlussleuchte<br><i>LED DI / Tail Light</i>        | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 12 V                                                                                         | 3 / 0,3 W         | PMMA / ABS<br>rot, klar - red, clear  | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07046             |
|                                                                             | <b>10.0039.000</b><br>BLS 725/24V | LED-Blink-Schlussleuchte<br><i>LED DI / Tail Light</i>        | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 24 V                                                                                         | 3 / 0,3 W         | PMMA / ABS<br>rot, klar - red, clear  | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07046             |
|                                                                             | <b>10.0036.000</b><br>BRS 725/12V | LED-Brems-Schlussleuchte<br><i>LED Stop / Tail Light</i>      | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 12 V                                                                                         | 4 / 0,3 W         | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07044             |
|                                                                             | <b>10.0037.000</b><br>BRS 725/24V | LED-Brems-Schlussleuchte<br><i>LED Stop / Tail Light</i>      | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 24 V                                                                                         | 4 / 0,3 W         | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07044             |
|                                                                             | <b>13.1040.000</b><br>BL 725/12V  | LED-Blinkleuchte / Kat. 2a<br><i>LED DI / Cat. 2a</i>         | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 12 V                                                                                         | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07045             |
|                                                                             | <b>13.1040.500</b><br>BL 725/24V  | LED-Blinkleuchte / Kat. 2a<br><i>LED DI / Cat. 2a</i>         | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 24 V                                                                                         | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07045             |
|                                                                             | <b>13.3030.000</b><br>SN 725/12V  | LED-Nebelschlussleuchte<br><i>LED Fog Light</i>               | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 12 V                                                                                         | 3 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07047             |
|                                                                             | <b>13.3031.000</b><br>SN 725/24V  | LED-Nebelschlussleuchte<br><i>LED Fog Light</i>               | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 24 V                                                                                         | 4 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07047             |
|                                                                             | <b>13.6028.000</b><br>W 725/12V   | LED-Rückfahleuchte<br><i>LED Reversing Light</i>              | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 12 V                                                                                         | 4 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07048             |
|                                                                             | <b>13.6029.000</b><br>W 725/24V   | LED-Rückfahleuchte<br><i>LED Reversing Light</i>              | ● ● ● ● ● ● ● ●<br>BL BR S W SN R K SM<br>DI ST TL RV FL RR NP NP | 24 V                                                                                         | 4 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-07048             |

Zusatz-Information:  
Additional Information:

Rückstrahler und Deko-Ringe siehe: L 710  
*Reflex reflectors and Decoration Rims please refer to: L 710*

## Zubehör / Ersatzteile \* Accessories / Spare parts

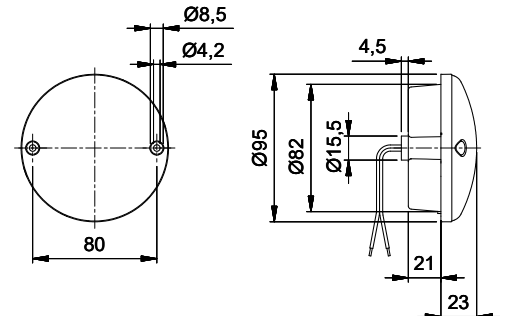
|                                                                                     |                                    |                                                             |                                                                                                |      |          |                                   |                                                                      |         |                    |                      |           |
|-------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------|------|----------|-----------------------------------|----------------------------------------------------------------------|---------|--------------------|----------------------|-----------|
|  | <b>62.3001.022</b><br>LK 100-2/12V | LED-Kontrollbox (Blinker)<br><i>LED Control Device (DI)</i> | Schaltstrom <i>Threshold</i><br>90mA bei $\geq 12V$                                            | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel $2 \times 1500 \text{ mm}$<br>cable $2 \times 1500 \text{ mm}$ | 0,40 kg | -20/+50°C<br>IP 67 | 10<br><div>E/5</div> | EMV / EMC |
| Zusatz-Information:<br>Additional Information:                                      |                                    |                                                             | geeignet für Leuchten: BBS 725/12V; BL 725/12V<br>suitable for lights: BBS 725/12V; BL 725/12V |      |          |                                   |                                                                      |         |                    |                      |           |



## LED-LEUCHTEN-SYSTEM 720 \* LED LIGHTING SYSTEM 720

Die Leuchten der Serie 720 sind anschlussfertig, wasserdicht vergossen und verfügen über ein Anschlusskabel von 180 mm. Sie sind mittels einem in verschiedenen Farben lieferbaren Zierring auf einen Durchmesser von 122 mm vergrößerbar. Die Leuchten sind für den Einbau vorgesehen, sind aber wegen ihrer geringen Einbautiefe auch für den Aufbau geeignet.

LED Lights type 720 are ready for plug-in, they are sealed in a waterproof manner and are equipped with a connecting cable of 180 mm. They can be extended by a decoration rim to a diameter of 122 mm available in different colours. These lights are used for flush fitting, but because of their small installation depth they can be used for surface mounting as well.



· Wasserdicht vergossen und anschlussfertig  
· Einbau- oder Aufbaumontage

· sealed in a waterproof manner and ready for plug-in  
· flush fitting or surface mounting

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                       | Merkmale<br>Features                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------|---------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|   | <b>10.0008.000</b><br>BRS 720/12V | LED-Brems-Schlussleuchte<br>LED Stop / Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 3,7 / 0,6 W       | PC / ABS<br>rot - red                 | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-203037            |
|                                                                                     | <b>10.0009.000</b><br>BRS 720/24V | LED-Brems-Schlussleuchte<br>LED Stop / Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 3,9 / 0,6 W       | PC / ABS<br>rot - red                 | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-203037            |
|                                                                                     | <b>10.0010.000</b><br>BRS 720/28V | LED-Brems-Schlussleuchte<br>LED Stop / Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 28-32 V           | 3,9 / 0,6 W       | PC / ABS<br>rot - red                 | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-203037            |
|  | <b>13.1021.000</b><br>BL 720/12V  | LED-Blinkleuchte / Kat. 2a<br>LED DI / Cat. 2a    | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 3,8 W             | PC / ABS<br>gelb - yellow             | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-0103038           |
|                                                                                     | <b>13.1022.000</b><br>BL 720/24V  | LED-Blinkleuchte / Kat. 2a<br>LED DI / Cat. 2a    | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 5,2 W             | PC / ABS<br>gelb - yellow             | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-0103038           |
|                                                                                     | <b>13.1023.000</b><br>BL 720/28V  | LED-Blinkleuchte / Kat. 2a<br>LED DI / Cat. 2a    | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 28-32 V           | 5,2 W             | PC / ABS<br>gelb - yellow             | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-0103038           |
|  | <b>13.0003.000</b><br>S 720/12V   | LED-Schlussleuchte<br>LED Tail Light              | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 0,6 W             | PC / ABS<br>rot - red                 | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-203010            |
|                                                                                     | <b>13.0004.000</b><br>S 720/24V   | LED-Schlussleuchte<br>LED Tail Light              | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 0,5 W             | PC / ABS<br>rot - red                 | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-203010            |
|  | <b>13.3005.000</b><br>SN 720/12V  | LED-Nebelschlussleuchte<br>LED Fog Light          | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 4,4 W             | PC / ABS<br>rot - red                 | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-0003036           |
|                                                                                     | <b>13.3006.000</b><br>SN 720/24V  | LED-Nebelschlussleuchte<br>LED Fog Light          | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 4,4 W             | PC / ABS<br>rot - red                 | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-0003036           |
|                                                                                     | <b>13.3007.000</b><br>SN 720/28V  | LED-Nebelschlussleuchte<br>LED Fog Light          | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 28-32 V           | 4,4 W             | PC / ABS<br>rot - red                 | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-0003036           |
|  | <b>13.6012.000</b><br>W 720/12V   | LED-Rückfahrleuchte<br>LED Reversing Light        | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 6,3 W             | PC / ABS<br>klar - clear              | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-0004035           |
|                                                                                     | <b>13.6013.000</b><br>W 720/24V   | LED-Rückfahrleuchte<br>LED Reversing Light        | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 6,7 W             | PC / ABS<br>klar - clear              | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-0004035           |
|                                                                                     | <b>13.6014.000</b><br>W 720/28V   | LED-Rückfahrleuchte<br>LED Reversing Light        | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 28-32 V           | 6,7 W             | PC / ABS<br>klar - clear              | Kabel 180 mm<br>cable 180 mm | 0,10 kg           | IP 67                    | 10       | E2-0004035           |

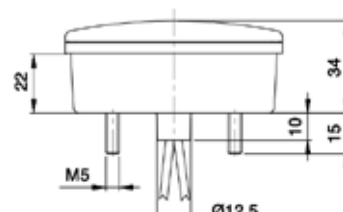
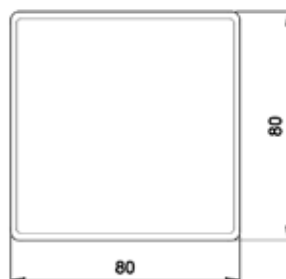
Zusatz-Information:  
Additional Information:

Rückstrahler und Deko-Ringe siehe: L 710  
Reflex reflectors and Decoration Rims please refer to: L 710

## LED-LEUCHTEN-SYSTEM 280 \* LED LIGHTING SYSTEM 280

Die Leuchten der Serie 280 sind anschlussfertig, wasserdicht vergossen und verfügen über ein Anschlusskabel von 500 mm. Die Leuchten sind für den Einbau vorgesehen, sind aber wegen ihrer geringen Einbautiefe auch für den Aufbau geeignet.

LED lights type 280 are ready for plug-in, they are sealed in a waterproof manner and are equipped with a connecting cable of 500 mm. These lights are used for flush fitting, but because of their small installation depth they can be used for surface mounting as well.



| <div><div>· Wasserdicht vergossen und anschlussfertig<br/>· Einbau- oder Aufbau montage</div><div>· sealed in a waterproof manner and ready for plug-in<br/>· flush fitting or surface mounting</div></div> |                                   |                                                                |                      |                   |                   |                                       |                              |                   |                          |          |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture                                                                                                                                                                                             | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                                    | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|                                                                                                                                                                                                             | <b>10.0030.500</b><br>BBS 280/12V | LED-Blink-Brems-Schlussl.<br><i>LED DI / Stop / Tail Light</i> |                      | 12 V              | 5 / 4 / 0,5 W     | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06069             |
|                                                                                                                                                                                                             | <b>10.0031.500</b><br>BBS 280/24V | LED-Blink-Brems-Schlussl.<br><i>LED DI / Stop / Tail Light</i> |                      | 24 V              | 5 / 4 / 0,5 W     | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06069             |
|                                                                                                                                                                                                             | <b>10.0028.500</b><br>BLS 280/12V | LED-Blink-Schlussleuchte<br><i>LED DI / Tail Light</i>         |                      | 12 V              | 5 / 0,5 W         | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06067             |
|                                                                                                                                                                                                             | <b>10.0029.500</b><br>BLS 280/24V | LED-Blink-Schlussleuchte<br><i>LED DI / Tail Light</i>         |                      | 24 V              | 5 / 0,5 W         | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06067             |
|                                                                                                                                                                                                             |                                   |                                                                |                      |                   |                   |                                       |                              |                   |                          |          |                      |
|                                                                                                                                                                                                             | <b>10.0027.500</b><br>BRS 280/24V | LED-Brems-Schlussleuchte<br><i>LED Stop / Tail Light</i>       |                      | 24 V              | 4 / 0,5 W         | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06068             |
|                                                                                                                                                                                                             | <b>13.1039.000</b><br>BL 280/12V  | LED-Blinkleuchte / Kat. 2a<br><i>LED DI / Cat. 2a</i>          |                      | 12 V              | 5 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06065             |
|                                                                                                                                                                                                             | <b>13.1039.500</b><br>BL 280/24V  | LED-Blinkleuchte / Kat. 2a<br><i>LED DI / Cat. 2a</i>          |                      | 24 V              | 5 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06065             |
|                                                                                                                                                                                                             | <b>13.3028.500</b><br>SN 280/12V  | LED-Nebelschlussleuchte<br><i>LED Fog Light</i>                |                      | 12 V              | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06063             |
|                                                                                                                                                                                                             | <b>13.3029.500</b><br>SN 280/24V  | LED-Nebelschlussleuchte<br><i>LED Fog Light</i>                |                      | 24 V              | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06063             |
|                                                                                                                                                                                                             | <b>13.6026.000</b><br>W 280/12V   | LED-Rückfahrleuchte<br><i>LED Reversing Light</i>              |                      | 12 V              | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06064             |
|                                                                                                                                                                                                             | <b>13.6027.000</b><br>W 280/24V   | LED-Rückfahrleuchte<br><i>LED Reversing Light</i>              |                      | 24 V              | 3 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,13 kg           | IP 67                    | 10       | E2-06064             |

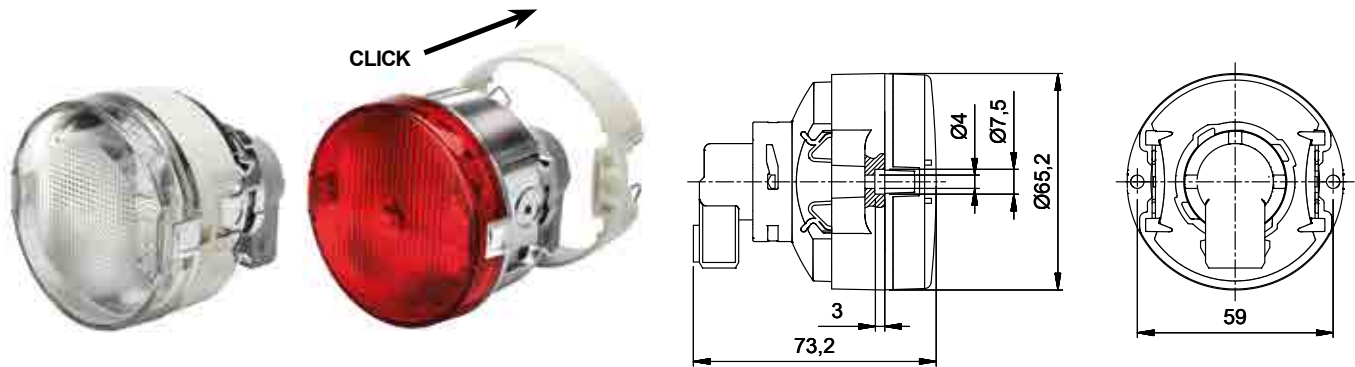
## Zubehör / Ersatzteile \* Accessories / Spare parts

|                                                                                     |                                    |                                                             |                                                                             |      |          |                                   |                                  |         |                    |   |           |
|-------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------|------|----------|-----------------------------------|----------------------------------|---------|--------------------|---|-----------|
|  | <b>62.3001.022</b><br>LK 100-2/12V | LED-Kontrollbox (Blinker)<br><i>LED Control Device (DI)</i> | Schaltsw./Threshold<br>90 mA (I=const.)                                     | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
| Zusatz-Information:<br><i>Additional Information:</i>                               |                                    |                                                             | geeignet für Leuchte: BBS 280/12V<br><i>suitable for light: BBS 280/12V</i> |      |          |                                   |                                  |         |                    |   |           |
|  | <b>62.3002.022</b><br>LK 100-2/24V | LED-Kontrollbox (Blinker)<br><i>LED Control Device (DI)</i> | Schaltsw./Threshold<br>50mA bei 24V                                         | 24 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
| Zusatz-Information:<br><i>Additional Information:</i>                               |                                    |                                                             | geeignet für Leuchte: BL 280/24V<br><i>suitable for light: BL 280/24V</i>   |      |          |                                   |                                  |         |                    |   |           |

## LEUCHTEN-SYSTEM 65 \* LIGHTING-SYSTEM 65

Die Leuchtengeneration L65 vereint zwei wichtige Merkmale in einem Produkt: Sie hat keine sichtbaren Befestigungsschrauben und ist dennoch im Falle eines Glühlampen-Austauschs von außen durch ein zuverlässiges Edelstahl-Federsystem entnehmbar. Entsprechend sieht sie an Ihrem Fahrzeug hervorragend aus und erleichtert die Wartungsarbeiten enorm, da keine Verkleidungs-Elemente demontiert werden müssen. Die Leuchte ist mit einem platzsparenden Winkel-Glühlampenhalter ausgestattet und die Glühlampe ist bereits vormontiert.

The L65 light generation combines two essential characteristics in a single product: it does not have any visible fixing screws but is nevertheless removable from the exterior if a bulb needs to be replaced. Accordingly, it looks splendid on your vehicle and maintenance is very easy, as no cladding elements need to be disassembled. The light is equipped with a space-saving angular bulb holder and the bulb is already preinstalled.



- Einbau Montage
- Inkl. Halter aus glasfaser-verstärktem Polyamid mit Klemmfeder
- Halter-Befestigung: Flachkopf-Schrauben 4 mm
- Inkl. 90° abgewinkelter Glühlampenhalter und vormontierter Glühlampe
- designed for flush mounting
- incl. polyamide holder with clip springs
- holder fixing: 4 mm flat-head screws
- incl. 90° angular connector and installed bulb

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                             | Merkmale<br>Features                                                                                                                                                                                                                                  | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection              | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|--------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.1058.000</b><br>BL 65/12V   | Blinkleuchte / Kat. 2a<br>Direction indicator / Cat. 2a | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V DC           | PY 21 W           | APEC / PA<br>weiß - white             | Winkel-Gl.-Halter<br>angular connec. | 0,07 kg           | -20 / +40°C<br>IP 67     | 10       | E13-13836            |
|  | <b>10.0011.000</b><br>BRS 65/12V  | Brems-Schlussleuchte<br>Stop / Tail Light               | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V DC           | P 21/5 W          | APEC / PA<br>rot - red                | Winkel-Gl.-Halter<br>angular connec. | 0,07 kg           | -20 / +40°C<br>IP 67     | 10       | E13-13835            |
|  | <b>10.0011.300</b><br>BRS 65w/12V | Brems-Schlussleuchte<br>Stop / Tail Light               | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V DC           | PR 21/5 W         | APEC / PA<br>rot - red                | Winkel-Gl.-Halter<br>angular connec. | 0,07 kg           | -20 / +40°C<br>IP 67     | 10       | E13-13835            |
|  | <b>13.3008.000</b><br>SN 65/12V   | Nebelschlussleuchte<br>Fog Light                        | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V DC           | P 21 W            | APEC / PA<br>rot - red                | Winkel-Gl.-Halter<br>angular connec. | 0,07 kg           | -20 / +40°C<br>IP 67     | 10       | E13-13624            |
|  | <b>13.3008.300</b><br>SN 65w/12V  | Nebelschlussleuchte<br>Fog Light                        | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V DC           | PR 21 W           | APEC / PA<br>rot - red                | Winkel-Gl.-Halter<br>angular connec. | 0,07 kg           | -20 / +40°C<br>IP 67     | 10       | E13-13624            |
|  | <b>13.6036.000</b><br>W 65/12V    | Rückfahrleuchte<br>Reversing Light                      | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V DC           | P 21 W            | APEC / PA<br>weiß - white             | Winkel-Gl.-Halter<br>angular connec. | 0,07 kg           | -20 / +40°C<br>IP 67     | 10       | E13-13635            |
|  | <b>13.2007.000</b><br>BR 65/12V   | Bremsleuchte<br>Stop Light                              | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V DC           | P 21 W            | APEC / PA<br>rot - red                | Winkel-Gl.-Halter<br>angular connec. | 0,07 kg           | -20 / +40°C<br>IP 67     | 10       | E13-13857            |

## Zubehör / Ersatzteile \* Accessories / Spare parts

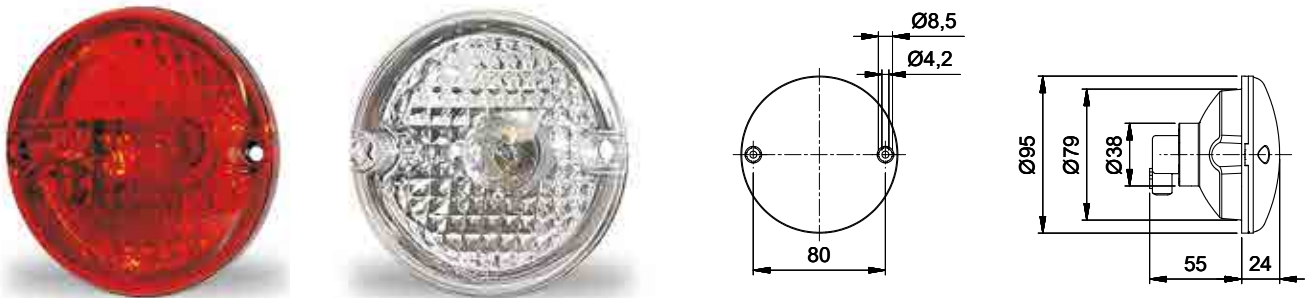


|                                                                                     |                               |                                                |                                          |  |  |                   |  |          |  |     |           |
|-------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------|------------------------------------------|--|--|-------------------|--|----------|--|-----|-----------|
|  | <b>30.0019.000</b><br>R 65/95 | Rückstrahler<br>Reflex Reflector               |                                          |  |  | PMMA<br>rot - red |  |          |  | 100 | E13-14244 |
|  | auf Anfrage/on request        | Deko-Ring<br>Decoration Rim                    | verchromt<br>chrome                      |  |  |                   |  |          |  |     |           |
|                                                                                     | <b>19.5026.000</b>            | Entriegelungswerkzeug<br>Lock-out release tool | Leuchten System 65<br>Lighting system 65 |  |  |                   |  | 0,004 kg |  |     |           |

## LEUCHTEN-SYSTEM 710 mit KLARGLASOPTIK \* LIGHTING SYSTEM 710 with CLEAR OPTICS

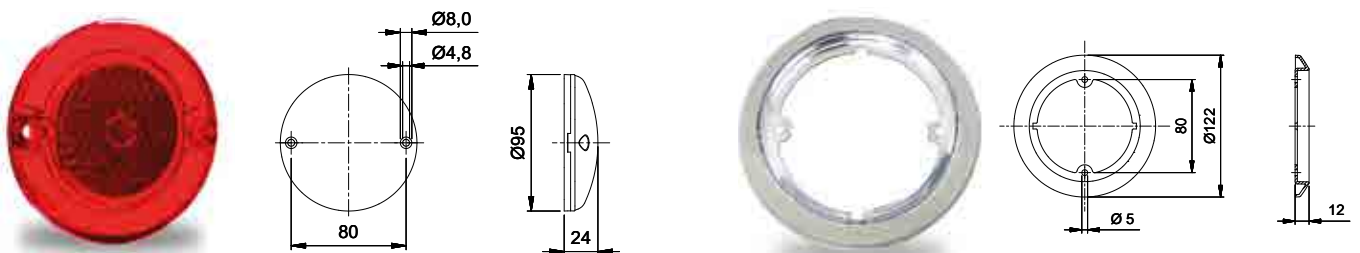
Die Leuchten der Serie 710 sind mittels einem in verschiedenen Farben lieferbaren Zierring auf einen Durchmesser von 122 mm vergrößerbar. Die Leuchten sind für den Einbau vorgesehen.

Lights type 710 can be extended by a decoration rim to a diameter of 122 mm available in different colours. These lights are used for flush fitting.



| · Mit montierten Glühlampen<br>· Abgewinkelter Glühlampenhalter                     |                                   | · with fitted bulbs<br>· angled bulb-holder |                                                                                                                                                                                                                                                       |                   |                   |                                       |                                      |                   |                          |          |                      |
|-------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|--------------------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                 | Merkmale<br>Features                                                                                                                                                                                                                                  | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection              | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|    | <b>10.0005.500</b><br>BRS 710/12V | Brems-Schlussleuchte<br>Stop / Tail Light   | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P 21 / 5 W        | PC / ABS<br>rot - red                 | Winkel-Gl.-Halter<br>angular connec. | 0,08 kg           |                          | 10       | E1-1542              |
|    | <b>13.1019.500</b><br>BL 710/12V  | Blinkleuchte / Kat. 2a<br>DI Light / Cat.2a | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P 21 W            | PC / ABS<br>gelb - yellow             | Winkel-Gl.-Halter<br>angular connec. | 0,08 kg           |                          | 10       | E1-1547              |
|  | <b>13.1031.500</b><br>BL 710/12V  | Blinkleuchte / Kat. 2a<br>DI Light / Cat.2a | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | PY 21 W           | PC / ABS<br>klar - clear              | Winkel-Gl.-Halter<br>angular connec. | 0,08 kg           |                          | 10       | E1-1547              |
|  | <b>13.3016.500</b><br>SN 710/12V  | Nebelschlussleuchte<br>Fog Light            | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P 21 W            | PC / ABS<br>rot - red                 | Winkel-Gl.-Halter<br>angular connec. | 0,08 kg           |                          | 10       | E1-1543              |
|  | <b>13.6011.500</b><br>W 710/12V   | Rückfahrleuchte<br>Reversing Light          | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P 21 W            | PC / ABS<br>klar - clear              | Winkel-Gl.-Halter<br>angular connec. | 0,08 kg           |                          | 10       | E1-1544              |

## Zubehör / Ersatzteile \* Accessories / Spare parts



|                                                                                     |                              |                                  |                               |  |  |                         |  |         |  |     |  |
|-------------------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------|--|--|-------------------------|--|---------|--|-----|--|
|  | <b>30.0016.000</b><br>R 710r | Rückstrahler<br>Reflex Reflector | klarglasoptik<br>clear optics |  |  | PMMA / SAN<br>rot - red |  | 0,06 kg |  | 100 |  |
|  | <b>19.2016.000</b>           | Deko-Ring<br>Decoration Rim      | versp./hochglanz<br>chrome    |  |  | SAN<br>chrom - chrome   |  | 0,02 kg |  | 50  |  |
|  | <b>19.2016.100</b>           | Deko-Ring<br>Decoration Rim      | versp./hochglanz<br>chrome    |  |  | SAN<br>rot - red        |  | 0,02 kg |  | 50  |  |
|  | <b>19.2016.200</b>           | Deko-Ring<br>Decoration Rim      | versp./hochglanz<br>chrome    |  |  | SAN<br>gelb - yellow    |  | 0,02 kg |  | 50  |  |

Zusatz-Information:  
Additional Information:

Deko-Ringe für Leuchten-Systeme 710 / 720 / 725  
Decoration Rims for Lighting Systems 710 / 720 / 725



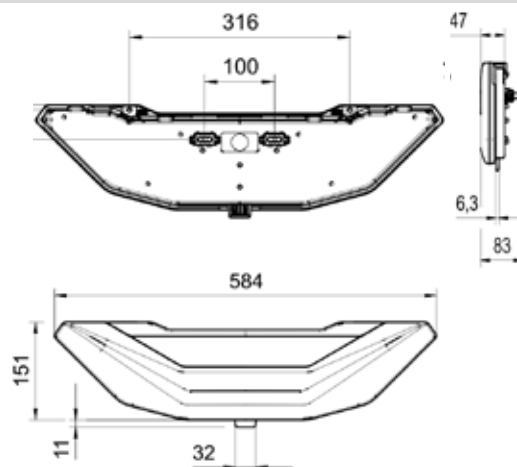
## MULTIFUNKTIONSLEUCHTEN MULTIPLE FUNCTION LIGHTS



## LED-FUNKTIONSLEUCHE L 3600\* LED MULTIPLE FUNCTION LIGHT L 3600

Ohne Zweifel ein Highlight in der nun bereits mehr als 70 Jahre andauernden Erfolgsgeschichte unseres Hauses und würdiger Nachfolger diverser zukunftsweisender Jokon-Leuchten. Eine nach modernsten Aspekten konzipierte LED-Mehrfunktionsleuchte mit integrierter LED-Überwachung, wahlweise perfekt durch die ebenfalls neu entwickelte „Bridgelight“ ergänzbar, lässt IHR Fahrzeug im modernsten Design erscheinen.

Without any doubt a highlight in the now already more than 70 years lasting success story of our company and worthy successor of various trend-setting Jokon lights. An LED multiple function light designed according to the most modern aspects with integrated LED monitoring, optionally perfectly complementable by the also newly developed „Bridgelight“, let YOUR vehicle appear in a most modern design.

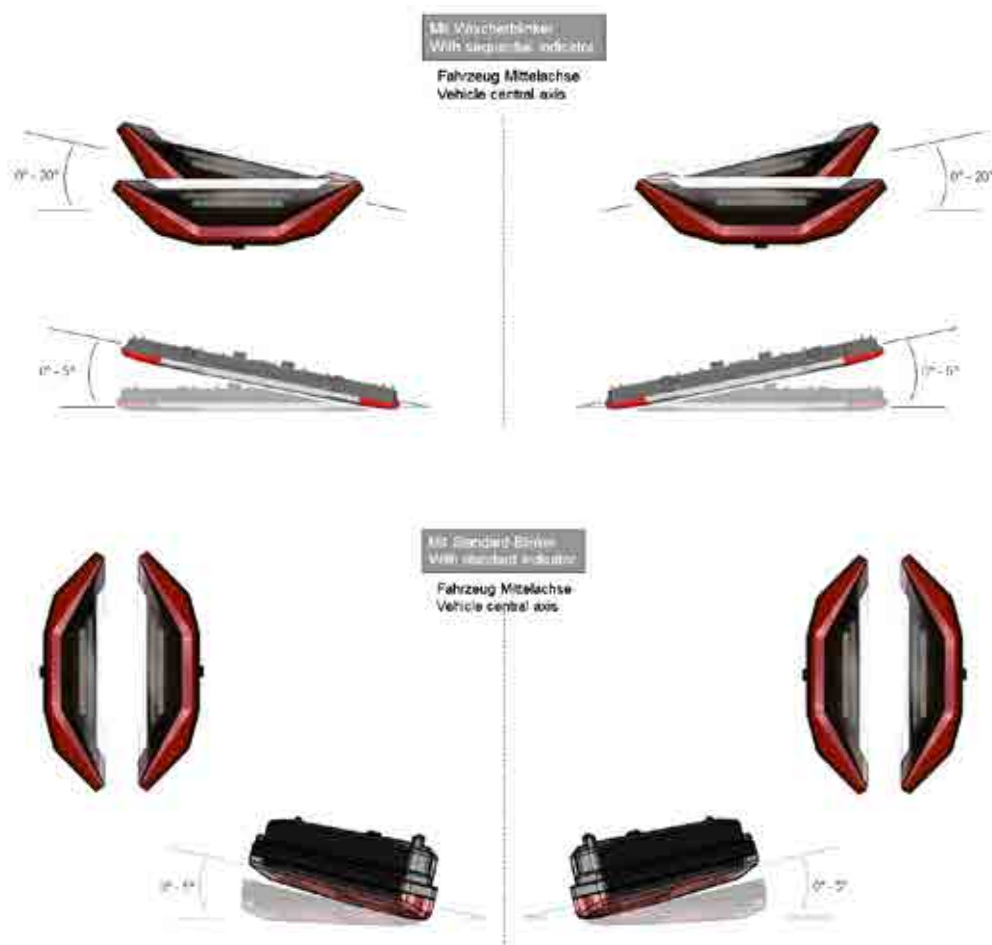


- LED-Multifunktionsleuchte (LED-MFL)
  - Varianten mit sequenziellem Blinklicht verfügbar (WBL)
  - Integrierte LED-Überwachung - SIM 100 (Selbstf), SIM 2000 (Anhänger)
  - Wasserdicht vergossen und anschlussfertig
  - Durch „Bridgelight“ ergänzbar
  - Kundenexklusive Dekoblende auf Anfrage
  - PC-ABS / PMMA
  - Anschluss 2 x 3-pol. Delphi
- LED multiple function light (LED-MFL)
  - variants with sequential indicator available (WBL)
  - integrated monitoring - SIM 100 (motor cars), SIM 2000 (trailer)
  - sealed in a waterproofed manner and ready for plug-in
  - can be supplemented by „Bridgelight“
  - customer exclusive design panel on request
  - PC-ABS / PMMA
  - connector 2 x 3-pin Delphi

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power  | Anbau<br>Installation | Überwachung<br>Monitoring | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|--------------------------------------|--------------------------------------------|------------------------------------------------|-------------------|--------------------|-----------------------|---------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>10.3200.011</b><br>WBBSNW 3600 LH | LED-MFL, Anhänger<br>LED-MFL, trailer      | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 27/25/8/<br>5/16 W | horizontal 0-20°      | SIM 2000                  | 1,35 kg           | -20/+50°C<br>IP 67       | 8        | E13-36079            |
|                 | <b>10.3200.021</b><br>WBBSNW 3600 RH | LED-MFL, Anhänger<br>LED-MFL, trailer      | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 27/25/8/<br>5/16 W | horizontal 0-20°      | SIM 2000                  | 1,35 kg           | -20/+50°C<br>IP 67       | 8        | E13-36080            |
|                 | <b>10.3200.511</b><br>WBBSNW 3600 LH | LED-MFL, Selbstfahrer<br>LED-MFL, motorcar | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 27/2/8/<br>5/5 W   | horizontal 0-20°      | SIM 100                   | 1,20 kg           | -20/+50°C<br>IP 67       | 8        | E13-36079            |
|                 | <b>10.3200.521</b><br>WBBSNW 3600 RH | LED-MFL, Selbstfahrer<br>LED-MFL, motorcar | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 27/2/8/<br>5/5 W   | horizontal 0-20°      | SIM 100                   | 1,20 kg           | -20/+50°C<br>IP 67       | 8        | E13-36080            |
|                 | <b>10.3230.011</b><br>BBSNW 3600 LH  | LED-MFL, Anhänger<br>LED-MFL, trailer      | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 27/25/8/<br>5/16 W | vertikal / vertical   | SIM 2000                  | 1,20 kg           | -20/+50°C<br>IP 67       | 8        | E13-36069            |
|                 | <b>10.3230.021</b><br>BBSNW 3600 RH  | LED-MFL, Anhänger<br>LED-MFL, trailer      | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 27/25/8/<br>5/16 W | vertikal / vertical   | SIM 2000                  | 1,20 kg           | -20/+50°C<br>IP 67       | 8        | E13-36069            |
|                 | <b>10.3230.511</b><br>BBSNW 3600 LH  | LED-MFL, Selbstfahrer<br>LED-MFL, motorcar | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 27/2/8/<br>5/5 W   | vertikal / vertical   | SIM 100                   | 1,20 kg           | -20/+50°C<br>IP 67       | 8        | E13-36069            |
|                 | <b>10.3230.521</b><br>BBSNW 3600 RH  | LED-MFL, Selbstfahrer<br>LED-MFL, motorcar | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 27/2/8/<br>5/5 W   | vertikal / vertical   | SIM 100                   | 1,20 kg           | -20/+50°C<br>IP 67       | 8        | E13-36069            |
|                 | <b>10.3250.511</b><br>BBSNW 3600 LH  | LED-MFL, Selbstfahrer<br>LED-MFL, motorcar | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              |                    | vertikal / vertical   | SIM 100                   | 1,20 kg           | -20/+50°C<br>IP 67       | 8        | E13-36069            |
|                 | <b>10.3250.521</b><br>BBSNW 3600 RH  | LED-MFL, Selbstfahrer<br>LED-MFL, motorcar | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              |                    | vertikal / vertical   | SIM 100                   | 1,20 kg           | -20/+50°C<br>IP 67       | 8        | E13-36069            |

|  |                    |                                                        |                                                                                                                                                                                                       |  |         |
|--|--------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------|
|  | <b>19.2053.000</b> | Dekoblende I 3600 chrom<br>deco cover I 3600 chrome    | Für alle Varianten mit horizontalem Anbau oder bei vertikalem Anbau mit Schlusslichtfunktion außen<br>For all variants with horizontal mounting or vertical mounting with tail light function outside |  | 0,04 kg |
|  | <b>19.2053.100</b> | Dekoblende I 3600 schwarz<br>deco cover I 3600 black   | Für alle Varianten mit horizontalem Anbau oder bei vertikalem Anbau mit Schlusslichtfunktion außen<br>For all variants with horizontal mounting or vertical mounting with tail light function outside |  | 0,03 kg |
|  | <b>19.2055.000</b> | Dekoblende II 3600 chrom<br>deco cover II 3600 chrome  | Für alle Varianten (Verfügbarkeit und weitere Informationen auf Anfrage)<br>For all variants (availability and further information on request)                                                        |  | 0,04 kg |
|  | <b>19.2055.100</b> | Dekoblende II 3600 schwarz<br>deco cover II 3600 black | Für alle Varianten (Verfügbarkeit und weitere Informationen auf Anfrage)<br>For all variants (availability and further information on request)                                                        |  | 0,03 kg |

## LED-FUNKTIONSLEUCHTE L 3600\* LED MULTIPLE FUNCTION LIGHT L 3600



## BRIDGELIGHT L 50\* BRIDGELIGHT L 50

Die innovative Konstruktion der L 50 Bridgelight erlaubt neben der Standardausführung, auf Kundenwunsch abgestimmte Abmessungen. Die homogen ausgeführte „leuchtende Fläche“ in Verbindung mit der variabel montierbaren Mehrfunktionsleuchte L 3600 gibt der rückwärtigen Ansicht IHRES Fahrzeuges einen unverwechselbaren Ausdruck. Sie stellt eine perfekte Ergänzung zum Trendsetter L 3600 dar (siehe Seite 60).

The innovative design of the L 50 Bridgelight allows customised dimensions in addition to the standard version. The homogeneously designed „luminous surface“ in combination with the variably mountable L 3600 multi-functional light gives the rear view of YOUR vehicle an unmistakable expression. It is a perfect extension to the trendsetter L 3600 (see page 60).



Designentwurf, Änderungen vorbehalten,  
weitere Informationen auf Anfrage  
Design draft, changes reserved,  
further information on request



Anbauoption  
mounting option

- Neben Standardausführung individuelle Längen möglich
- Homogenes Schlusslicht

- in addition to standard design, individual lengths possible
- homogeneous tail light

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description          | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.0061.000</b><br>S 50/12V | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K PL<br>DI ST TL RV FL RR NP PL | 12V               |                   |                                       |                         |                   |                          |          |                      |
|  | <b>auf Anfrage</b><br>S 50/24V | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K PL<br>DI ST TL RV FL RR NP PL | 24V               |                   |                                       |                         |                   |                          |          |                      |

## MULTIFUNKTIONSLEUCHE L 3100 \* MULTIPLE FUNCTION LIGHT L 3100

Die Leuchten der Serie 3100 wurden für Freizeitfahrzeuge mit dem Bedarf eines senkrechten Anbaus entwickelt. Ergebnis ist eine schmale hochbauende Mehrfunktionsleuchte mit Glühlampentechnik und allen Lichtfunktionen einschließlich Rückstrahler oder Dreieck-Rückstrahler. Sie ist daher je nach Ausführung für Motorcaravans als auch für Caravans einsetzbar. Weitere Varianten mit LED-Schlussfunktion und farblich dunkler gestalteten Lichtscheiben sind verfügbar.

The lights of the series 3100 were developed for recreational vehicles that require vertical mounting. The result is a slim, high-build multi-function light with bulb technology and all light functions including reflector or triangular reflector. Depending on the version, it can therefore be used for both: motor caravans and caravans. Further variants with LED tail light function and dark colored lenses are available.

## Merkmale \* Features



## Technische Daten \* Technical Data



- Einbau-Montage vertikal
- Zweifarbige Lichtscheibe (rot/klar), Gehäuse grau
- Inkl. montierten 12 V Glühlampen
- Zusätzliche Varianten mit LED-Schlusslichtfunktion verfügbar
- flush fitting vertically
- 2-colour lens (red/clear), housing grey
- incl. fitted 12 V bulbs
- additional variants with LED tail light functions available

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type          | Beschreibung<br>Description                                                | Merkmale<br>Features                        | Spann.<br>Voltage | Leistung<br>Power      | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                                      | Gewicht<br>Weight | IP / Temp.           | VP<br>PU | Homolog.<br>Approval |
|-----------------|---------------------------------------|----------------------------------------------------------------------------|---------------------------------------------|-------------------|------------------------|---------------------------------------|--------------------------------------------------------------|-------------------|----------------------|----------|----------------------|
|                 | <b>10.2240.011</b><br>BBSNWR 3100 LH  | LED-Hybrid-Multifunktionsleuchte<br>LED-Hybrid-Multiple Function Light     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | PY21W;<br>3xP21W/ 2W   | PMMA / ABS<br>rot-klar / red-clear    | Winkel-GL-HalterDelph 2 pol.<br>angular conn./ Delphi 2 pol. | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-3360              |
|                 | <b>10.2240.021</b><br>BBSNWR 3100 RH  | LED-Hybrid-Multifunktionsleuchte<br>LED-Hybrid-Multiple Function Light     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | PY21W;<br>3xP21W/ 2W   | PMMA / ABS<br>rot-klar / red-clear    | Winkel-GL-HalterDelph 2 pol.<br>angular conn./ Delphi 2 pol. | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-3360              |
|                 | <b>10.2240.311</b><br>BBSNWR 3100 LH  | LED-Hybrid-Multifunktionsleuchte<br>LED-Hybrid-Multiple Function Light     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | PY21W;<br>3xP21W/ 2W   | PMMA / ABS<br>rot-grau / red-grey     | Winkel-GL-HalterDelph 2 pol.<br>angular conn./ Delphi 2 pol. | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-3360              |
|                 | <b>10.2240.321</b><br>BBSNWR 3100 RH  | LED-Hybrid-Multifunktionsleuchte<br>LED-Hybrid-Multiple Function Light     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | PY21W;<br>3xP21W/ 2W   | PMMA / ABS<br>rot-grau / red-grey     | Winkel-GL-HalterDelph 2 pol.<br>angular conn./ Delphi 2 pol. | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-3360              |
|                 | <b>10.2250.011</b><br>BBSNWDR 3100 LH | LED-Hybrid-Multifunktionsleuchte<br>LED-Hybrid-Multiple Function Light     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | PY21W;<br>3xP21W/ 2W   | PMMA / ABS<br>rot-klar / red-clear    | Winkel-GL-HalterDelph 2 pol.<br>angular conn./ Delphi 2 pol. | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-3360              |
|                 | <b>10.2250.021</b><br>BBSNWDR 3100 RH | LED-Hybrid-Multifunktionsleuchte<br>LED-Hybrid-Multiple Function Light     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | PY21W;<br>3xP21W/ 2W   | PMMA / ABS<br>rot-klar / red-clear    | Winkel-GL-HalterDelph 2 pol.<br>angular conn./ Delphi 2 pol. | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-3360              |
|                 | <b>10.2250.311</b><br>BBSNWDR 3100 LH | LED-Hybrid-Multifunktionsleuchte<br>LED-Hybrid-Multiple Function Light     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | PY21W;<br>3xP21W/ 2W   | PMMA / ABS<br>rot-grau / red-grey     | Winkel-GL-HalterDelph 2 pol.<br>angular conn./ Delphi 2 pol. | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-3360              |
|                 | <b>10.2250.321</b><br>BBSNWDR 3100 RH | LED-Hybrid-Multifunktionsleuchte<br>LED-Hybrid-Multiple Function Light     | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | PY21W;<br>3xP21W/ 2W   | PMMA / ABS<br>rot-grau / red-grey     | Winkel-GL-HalterDelph 2 pol.<br>angular conn./ Delphi 2 pol. | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-3360              |
|                 | <b>10.2220.011</b><br>BBSNWDR 3100 LH | Multifunktionsleuchte Dreieck-RS<br>Multiple Function Light triangle refl. | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | R10W; PY21W;<br>3xP21W | PMMA / ABS<br>rot-klar / red-clear    | Winkel-GL-Halter<br>angular conn.                            | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-03028             |
|                 | <b>10.2220.021</b><br>BBSNWDR 3100 RH | Multifunktionsleuchte Dreieck-RS<br>Multiple Function Light triangle refl. | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | R10W; PY21W;<br>3xP21W | PMMA / ABS<br>rot-klar / red-clear    | Winkel-GL-Halter<br>angular conn.                            | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-03028             |
|                 | <b>10.2230.011</b><br>BBSNWR 3100 LH  | Multifunktionsleuchte Rund-RS<br>Multiple Function Light round refl.       | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | R10W; PY21W;<br>3xP21W | PMMA / ABS<br>rot-klar / red-clear    | Winkel-GL-Halter<br>angular conn.                            | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-03028             |
|                 | <b>10.2230.021</b><br>BBSNWR 310 RH   | Multifunktionsleuchte Rund-RS<br>Multiple Function Light round refl.       | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | R10W; PY21W;<br>3xP21W | PMMA / ABS<br>rot-klar / red-clear    | Winkel-GL-Halter<br>angular conn.                            | 1,20 kg           | -20 / +50°C<br>IP 55 | 10       | E1-03028             |



## MULTIFUNKTIONSLEUCHTE L 3000 \* MULTIPLE FUNCTION LIGHT L 3000

Die Leuchten der Serie 3000 wurden für Freizeitfahrzeuge mit dem Bedarf eines waagerechten Anbaus entwickelt. Ergebnis ist eine charakteristische schlanke Mehrfunktionsleuchte mit Glühlampentechnik und allen Lichtfunktionen einschließlich Rückstrahler oder Dreieck-Rückstrahler. Sie ist daher je nach Ausführung für Motorcaravans als auch für Caravans einsetzbar.

The lights of the series 3000 were developed for recreational vehicles that require horizontal mounting. The result is a characteristic slim multi-function light with bulb technology and all light functions including reflector or triangular reflector. Depending on the version, it can therefore be used for both: motorcaravans and caravans.

## Merkmale \* Features



- charakteristisches Nachtdesign
- characteristic night design



- auch mit rundem Rückstrahler für Zugfahrzeuge
- also available with round reflex refl. for drawing vehicles

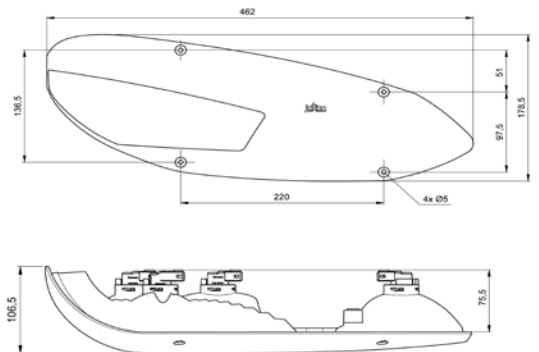


- incl. Qualitäts-Glühlampe und Jakon-Glühlampenhalter
- incl. high quality bulb and Jakon socket



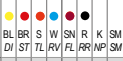
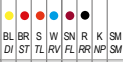
- incl. Entlüftungs-Labyrinth mit Abdeckung
- incl. deaeration labyrinth with cover

## Technische Daten \* Technical Data



- Einbau-Montage horizontal
- Zweifarbige Lichtscheibe (rot/klar), Gehäuse grau
- Inkl. montierten Glühlampen (12 V)

- flush fitting horizontal
- 2-colour lens (red/clear), housing grey
- incl. fitted 12 V bulbs

| Bild<br>Picture                                                                    | Art.-Nr. / No.<br>Typ / Type          | Beschreibung<br>Description                                                | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power         | Material / Farbe<br>Material / Colour | Anschluss<br>Connection           | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|---------------------------|---------------------------------------|-----------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>10.2200.011</b><br>BBSNWDR 3000 LH | Multifunktionsleuchte Dreieck-RS<br>Multiple Function Light triangle refl. |  | 12 V              | P21/5W; 2 x<br>P21W;PY21W | PC / PC<br>rot-klar / red-clear       | Winkel-GL-Halter<br>angular conn. | 0,80 kg           | -20 / +50°C<br>IP 55     | 12       | E1-03026             |
|  | <b>10.2200.021</b><br>BBSNWDR 3000 RH | Multifunktionsleuchte Dreieck-RS<br>Multiple Function Light triangle refl. |  | 12 V              | P21/5W; 2 x<br>P21W;PY21W | PC / PC<br>rot-klar / red-clear       | Winkel-GL-Halter<br>angular conn. | 0,80 kg           | -20 / +50°C<br>IP 55     | 12       | E1-03026             |
|  | <b>10.2210.011</b><br>BBSNWR 3000 LH  | Multifunktionsleuchte Rund-RS<br>Multiple Function Light round refl.       |  | 12 V              | P21/5W; 2 x<br>P21W;PY21W | PC / PC<br>rot-klar / red-clear       | Winkel-GL-Halter<br>angular conn. | 0,80 kg           | -20 / +50°C<br>IP 55     | 12       | E1-03026             |
|  | <b>10.2210.021</b><br>BBSNWR 3000 RH  | Multifunktionsleuchte Rund-RS<br>Multiple Function Light round refl.       |  | 12 V              | P21/5W; 2 x<br>P21W;PY21W | PC / PC<br>rot-klar / red-clear       | Winkel-GL-Halter<br>angular conn. | 0,80 kg           | -20 / +50°C<br>IP 55     | 12       | E1-03026             |

## MODULARES RÜCKLEUCHTEN-SYSTEM 810 \* MODULAR REAR LIGHT SYSTEM 810

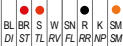
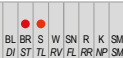
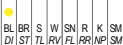
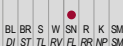
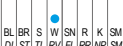
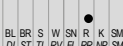
Das modulare Rückleuchten-System ist von Jokon speziell für die Hersteller von Caravans, Motorcaravans und Minibussen (nur 12 V) konzipiert und entwickelt worden. Durch die Kombination von Einzelmodulen, dem Halterahmen und einem individuellen Dekorrahmen, dessen Design für Sie reserviert und geschützt werden kann, geben Sie Ihrem Fahrzeug ein eigenständiges und unverwechselbares Aussehen und investieren nur einen vergleichsweise geringen Betrag in das Werkzeug des Dekorrahmens.

The modular rear light system has been designed and developed by Jokon for manufacturers of caravans, mobile homes and (mini-)buses (only 12 V). The combination of modules, the mounting frame and an individual decoration frame, allow your vehicle an individual and distinctive appearance with only comparatively small investment in the tooling of the decoration frame. Exclusive design protection is possible on request.



· Durch entsprechenden Dekorahmen horizontal oder vertikal anbaubar  
· Inkl. montierten Glühlampen (12 V)

· can be mounted horizontally or vertically through appropriate decorative frame  
· incl. fitted bulbs (12 V)

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                           | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection           | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|-----------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>10.2091.800 M</b><br>BRSM 810/12V | Modulare Rückleuchte<br>Modular Rear Light            |  | 12 V              | P 21/ 5 W         | PMMA / ABS<br>rot - red               | Winkel-GL-Halter<br>angular conn. | 0,22 kg           |                          | 10       | E9-1442              |
|  | <b>10.2091.840 M</b><br>BRS 810/12V  | Modulare Brems-Schlussl.<br>Modular Stop / Tail Light |  | 12 V              | P 21/ 5 W         | PMMA / ABS<br>rot - red               | Winkel-GL-Halter<br>angular conn. | 0,13 kg           |                          | 10       | E9-1442              |
|  | <b>10.2091.810 M</b><br>BL 810/12V   | Modulare Blinkleuchte<br>Modular DI                   |  | 12 V              | PY 21 W           | PMMA / ABS<br>rot, klar - red, clear  | Winkel-GL-Halter<br>angular conn. | 0,22 kg           |                          | 10       | 2a01 E1-2116         |
|  | <b>10.2091.820 M</b><br>SN 810/12V   | Modulare Nebelschlussl.<br>Modular Fog Light          |  | 12 V              | C 5 W             | PMMA / ABS<br>rot - red               | Winkel-GL-Halter<br>angular conn. | 0,13 kg           |                          | 10       | E1-2118              |
|  | <b>10.2091.830 M</b><br>W 810/12V    | Modulare Rückfahleuchte<br>Modular Reversing Light    |  | 12 V              | P 21 W            | PMMA / ABS<br>rot, klar - red, clear  | Winkel-GL-Halter<br>angular conn. | 0,22 kg           |                          | 10       | E1-2217              |
|  | <b>10.2091.850 M</b><br>R 810        | Modularer Rückstrahler<br>Modular Reflex Reflector    |  |                   |                   | PMMA / ABS<br>rot - red               |                                   | 0,22 kg           |                          | 10       | E1-2240              |

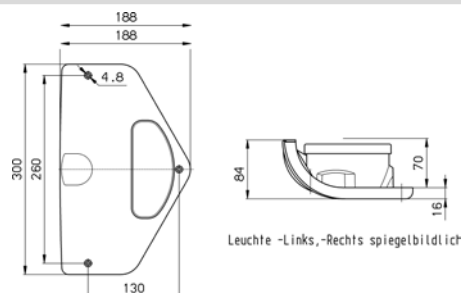
## Zubehör / Ersatzteile \* Accessories / Spare parts

|                                                                                     |                    |                                                      |                                          |  |  |                        |  |         |  |     |  |
|-------------------------------------------------------------------------------------|--------------------|------------------------------------------------------|------------------------------------------|--|--|------------------------|--|---------|--|-----|--|
|                                                                                     | <b>19.2027.000</b> | Dekorahmen für 2 Module<br>Deco Frame for 2 modules  | oben-li / unten-re<br>top LH / bottom RH |  |  | PMMA<br>rot - red      |  | 0,13 kg |  | 16  |  |
|                                                                                     | <b>19.2028.000</b> | Dekorahmen für 2 Module<br>Deco Frame for 2 modules  | oben-re / unten-li<br>top RH / bottom LH |  |  | PMMA<br>rot - red      |  | 0,13 kg |  | 16  |  |
|  | <b>19.2024.000</b> | Dekorahmen für 4 Module<br>Deco Frame for 4 modules  | vert. und horiz.<br>vert. and horiz.     |  |  | PMMA<br>rot - red      |  |         |  | 18  |  |
|                                                                                     | <b>19.2031.000</b> | Halterahmen für Module<br>Mounting frame for modules | für 2 Modul<br>for 2 module              |  |  | ABS<br>schwarz - black |  | 0,11 kg |  | 100 |  |
|                                                                                     | <b>19.2020.000</b> | Halterahmen für Module<br>Mounting frame for modules | für 3 Modul<br>for 3 module              |  |  | ABS<br>schwarz - black |  | 0,16 kg |  | 50  |  |
|                                                                                     | <b>19.2021.000</b> | Halterahmen für Module<br>Mounting frame for modules | für 4 Modul<br>for 4 module              |  |  | ABS<br>schwarz - black |  | 0,22 kg |  | 50  |  |
|  | <b>19.2022.000</b> | Halterahmen für Module<br>Mounting frame for modules | für 5 Modul<br>for 5 module              |  |  | ABS<br>schwarz - black |  | 0,28 kg |  | 50  |  |

## LEUCHTEN-SYSTEM 2000 \* LIGHTING SYSTEM 2000

Das modulare Rückleuchten-System wurde für die Hersteller von Caravans und Motorcaravans konzipiert. Durch die Kombination der Basisleuchte mit einem Dreieck-Rückstrahlermodul bzw. einem Rückfahrscheinwerfer-Rückstrahlermodul ist die Serie L 2000 für beide Bauarten einsetzbar.

The modular rear light system was designed for manufacturers of caravans and motorhomes. By combining the basic light with a triangular reflector module or a reversing light-reflector module, the L 2000 series can be used for both vehicle types.



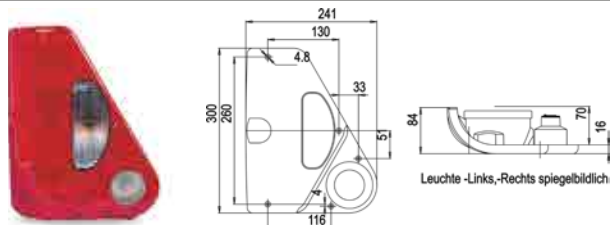
Leuchte -Links,-Rechts spiegelbildlich

- Einbaukombination
- Inkl. montierten Glühlampen (12 V)

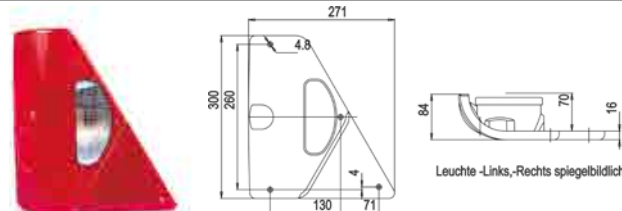
- flush-fitting combination
- with fitted bulbs (12 V)

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                      | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power      | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------|------------------------------------------------|-------------------|------------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|    | <b>10.2037.000</b><br>BBSNMR 2000 LH | Multifunktionsleuchte<br>Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 2 x P21 W<br>PY21WR10W | PMMA / ABS<br>rot, klar - red, clear  | Flachsteckungen<br>blade terminals | 0,63 kg           |                          | 14       | E4-9445              |
|                                                                                     | <b>10.2037.200</b><br>BBSNMR 2000 RH | Multifunktionsleuchte<br>Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 2 x P21 W<br>PY21WR10W | PMMA / ABS<br>rot, klar - red, clear  | Flachsteckungen<br>blade terminals | 0,63 kg           |                          | 14       | E4-9445              |
|    | <b>10.2037.600</b><br>WR 2000        | Rückfahrscheinwerfer<br>Reversing Light          | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | P21 W                  | PMMA / ABS<br>rot, klar - red, clear  | Flachsteckungen<br>blade terminals | 0,12 kg           |                          | 10       | E4-9485              |
|                                                                                     |                                      | Zusatz-Information:<br>Additional Information:   |                                                |                   |                        |                                       |                                    |                   |                          |          |                      |
|  | <b>10.2037.400</b><br>DR 2000        | Dreieck - Rückstrahler<br>Triangular Reflector   | 10.2037.000<br>10.2037.200                     |                   |                        | PMMA / ABS<br>rot - red               |                                    | 0,09 kg           |                          | 10       | E4-023164            |

## Kombinationsmöglichkeiten \* Combination possibilities



Leuchte -Links,-Rechts spiegelbildlich

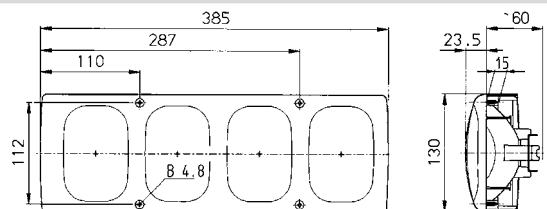


Leuchte -Links,-Rechts spiegelbildlich

## MULTIFUNKTIONSLEUCHE 561 \* MULTIPLE FUNCTION LIGHT 561

Mehrfunktionsleuchte mit den Funktionen Blink-Brems-Schluss-Nebelschluss- und Rückfahrlicht bzw. Blink-Brems-Schluss-Nebelschlusslicht.

Multi-function light with indicator, brake, tail light and optional license plate illumination.



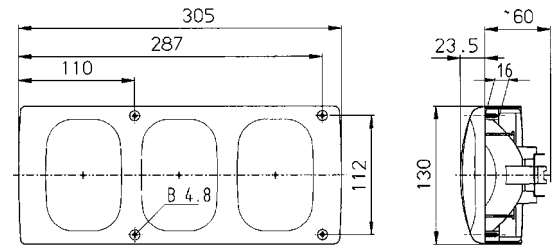
- Horizontaler Einbau
- Inkl. montierten Glühlampen (12 V)
- Leuchten Typ 561 können die Varianten des Typs 541 ersetzen

- horizontal flush-fitting
- with fitted bulbs (12 V)
- lamps type 561 can replace the corresponding variants of type 541

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type    | Beschreibung<br>Description                      | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power        | Material / Farbe<br>Material / Colour     | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------|------------------------------------------------|-------------------|--------------------------|-------------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>10.2039.011</b><br>BBSN 561  | Multifunktionsleuchte<br>Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 2 x P21 W<br>PY21WR10W   | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,56 kg           |                          | 10       | E1-785               |
|  | <b>10.2040.011</b><br>BBSWN 561 | Multifunktionsleuchte<br>Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 2 x P21 W<br>PY21W, P215 | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,58 kg           |                          | 10       | E1-786               |

## MULTIFUNKTIONSLEUCHTE 562 \* MULTIPLE FUNCTION LIGHT 562

Mehrfunktionsleuchte mit den Funktionen Blink-Brems-Schluss-Nebelschluss- und Rückfahrlicht bzw. Blink-Brems-Schluss-Nebelschlusslicht.  
Multi-function light with indicator, brake, tail light and optional license plate illumination.

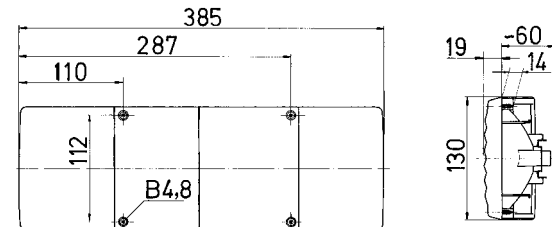


- Horizontaler Einbau
- Inkl. montierten Glühlampen (12 V)
- Leuchten Typ 562 können die Varianten des Typs 542 ersetzen

- horizontal flush-fitting
- incl. fitted bulbs (12 V)
- lamps type 562 can replace the corresponding variants of type 542

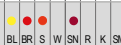
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description                      | Merkmale<br>Features                                                              | Spann.<br>Voltage | Glühl. / Leist.<br>Bulb / Power | Material / Farbe<br>Material / Colour     | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|---------------------------------|-------------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>10.2041.011</b><br>BBSN 562 | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | PY21W+P21W<br>P21/5W            | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,52 kg           |                          | 8        | E1-767               |

## MULTIFUNKTIONSLEUCHTE 541 \* MULTIPLE FUNCTION LIGHT 541

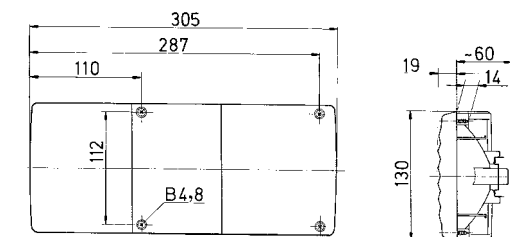


- Inkl. montierten Glühlampen (12 V)
- Links oder rechts einsetzbar

- incl. bulbs fitted (12 V)
- LH or RH applicable

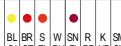
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type    | Beschreibung<br>Description                      | Merkmale<br>Features                                                                | Spann.<br>Voltage | Glühl. / Leist.<br>Bulb / Power | Material / Farbe<br>Material / Colour              | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval                                 |
|-------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|---------------------------------|----------------------------------------------------|------------------------------------|-------------------|--------------------------|----------|------------------------------------------------------|
|  | <b>10.1023.011</b><br>BBS 541   | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | 2xP21 W<br>R 10 W               | PMMA / ABS<br>rot, gelb - red, yellow              | Flachsteckungen<br>blade terminals | 0,57 kg           |                          | 10       | E1-0263206                                           |
|  | <b>10.2008.011</b><br>BBSN 541  | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | 3xP21 W<br>R 10 W               | PMMA / ABS<br>rot, gelb - red, yellow              | Flachsteckungen<br>blade terminals | 0,59 kg           |                          | 10       | E1-0263206                                           |
|  | <b>10.2009.011</b><br>BBSW 541  | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | 2xP21 W<br>R 10 W               | PMMA / ABS<br>rot, gelb, klar - red, yellow, clear | Flachsteckungen<br>blade terminals | 0,59 kg           |                          | 10       | E1-8763R23<br>E1-0263206                             |
|  | <b>10.2010.011</b><br>BBSWN 541 | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | 3xP21 W<br>R 10 W               | PMMA / ABS<br>rot, gelb, klar - red, yellow, clear | Flachsteckungen<br>blade terminals | 0,59 kg           |                          | 10       | E1-8763R23<br>E1-0263206<br>E1-0163206<br>E1-0163207 |

## MULTIFUNKTIONSLEUCHTE 542 \* MULTIPLE FUNCTION LIGHT 542



- Inkl. montierten Glühlampen (12 V)
- Links oder rechts einsetzbar

- incl. bulbs fitted (12 V)
- LH or RH applicable

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description                      | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>10.2011.011</b><br>BBSN 542 | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | P21/5W<br>2xP21 W | PMMA / ABS<br>rot, gelb - red, yellow | Flachsteckungen<br>blade terminals | 0,49 kg           |                          | 10       | E1-63235             |



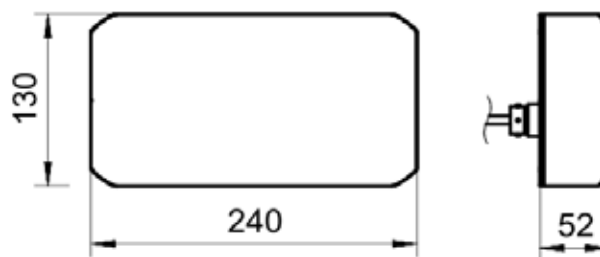
## LED-MULTIFUNKTIONSLEUCHE L 920 \* LED MULTIPLE FUNCTION LIGHT L 920

Highlights dieser neu entwickelten Mehrfunktionsleuchte sind die integrierten Abfragesimulationen zur Gewährleistung der Anhängererkennung durch das Zugfahrzeug, die bewährte Jokon LED-Defect-Control-Schaltung und das moderne Design mit sequenziellem Blinklicht und homogenem Schlusslicht. Eine separate Kontrollbox zur Funktionsüberwachung ist in der Regel nicht mehr notwendig. Entwickelt in bekannter Jokon-Qualität und Designanspruch. Natürlich sind alle rechtlichen Anforderungen erfüllt.

Highlights of this newly developed multiple function light are the integrated monitoring simulations to ensure trailer recognition by the towing vehicle, the proven Jokon LED-Defect-Control-Circuit and the modern design with sequential indicator and homogenous tail light. A separate control box for function monitoring is generally no longer necessary. Developed in well-known Jokon quality and design, all legal requirements are of course fulfilled.



Designentwurf, Änderungen vorbehalten,  
weitere Informationen auf Anfrage  
Design draft, changes reserved,  
further information on request



Vorläufige Abmessungen, Änderungen vorbehalten  
Preliminary dimensions, changes reserved

- Sehr kompaktes und attraktives Design
- Sequenzieller Wischerblinker
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Blinker: mit LDC (LED-Defect-Contr.)
- Integrierte Abfragesimulation

- compact and attractive design
- sequential wiper indicator
- incl. hidden membrane to balance thermodynamics
- DI function: with LDC (LED-Defect-Control)
- integrated simulation

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type              | Beschreibung<br>Description                              | Merkmale<br>Features                                                                                                                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>10.3500.011</b><br>BBSNWDR 920 li / LH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | <div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> </div> | 12 V              |                   | PC<br>rot-klar / red-clear            | Zentralanschl.<br>centr. connector |                   | -20/+50°C<br>IP 67       |          |                      |
|  | <b>10.3500.021</b><br>BBSNWDR 920 re / RH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | <div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> </div> | 12 V              |                   | PC<br>rot-klar / red-clear            | Zentralanschl.<br>centr. connector |                   | -20/+50°C<br>IP 67       |          |                      |
|  | <b>10.3500.111</b><br>BBSKWDR 920 li / LH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | <div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> </div> | 12 V              |                   | PC<br>rot-klar / red-clear            | Zentralanschl.<br>centr. connector |                   | -20/+50°C<br>IP 67       |          |                      |
|  | <b>10.3500.121</b><br>BBSKWDR 920 re / RH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | <div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> </div> | 12 V              |                   | PC<br>rot-klar / red-clear            | Zentralanschl.<br>centr. connector |                   | -20/+50°C<br>IP 67       |          |                      |

## LED-MULTIFUNKTIONSLEUCHE L 915 \* LED MULTIPLE FUNCTION LIGHT L 915

Die LED-Bestückung ermöglicht die Entwicklung einer äußerst kompakten Leuchte. Ergebnis ist eine sehr flache LED-Multifunktionsleuchte mit allen Lichtfunktionen einschließlich 2er Rückstrahlerausführungen. Sie eignet sich durch ihr neutrales und modernes Design für viele unterschiedliche Fahrzeugtypen. LED usage enables an extremely compact light. The result is a very flat LED multifunctional light with all lighting functions including 2 reflector versions. Its neutral and modern design makes it suitable for many different types of vehicles.

## Merkmale \* Features



- Charakteristisches Nachtdesign
- characteristic night design



- Basic-Version erhältlich auch mit schwarzer Blende
- basic version available also with black cover



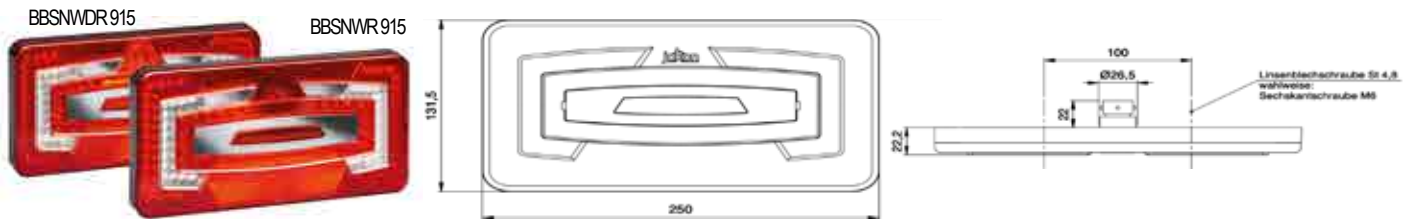
- Extrem flach, auch für Aufbau-Installation geeignet
- extremely flat, also suitable for surface mounting



- Flexible Befestigung mit M6-Schraube als Stehbolzen (a) oder von vorne (b)
- flexible fixation with M6 as bolt (a) or from the frontside (b)



- Kombinierbarkeit mit LED-Kontrollbox für Blinkerausfallkontrolle
- combination with device for LED failure control of direction indicator



- Verdeckte Membran für thermodynamischen Ausgleich
- Mit verchromten Designelement
- 9-16V; S-2W; BR-3,0W; BL-4,0W; SN-7,0W; W-5,0W
- 9-32V; S-1,5W; BR-3,0W; BL-3,0W; SN-4,5W; W-3,0W

- non visible membrane for thermodynamic balance
- with chrom-plated design part
- 9-16V; S-2W; BR-3.0W; BL-4.0W; SN-7.0W; W-5.0W
- 9-32V; S-1,5W; BR-3,0W; BL-3,0W; SN-4,5W; W-3,0W

| Bild<br>Picture                                | Art.-Nr. / No.<br>Typ / Type              | Beschreibung<br>Description                              | Merkmale<br>Features                                                                                             | Spann.<br>Voltage | Leistung<br>Power       | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|------------------------------------------------|-------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|------------------------|
|                                                | <b>10.2400.111</b><br>BBSNWR915b/9-16V/LH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                   | 9-16 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Zentralanschl.<br>centr. connector | 0,50 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13359<br>EMV / EMC |
|                                                | <b>10.2400.121</b><br>BBSNWR915b/9-16V/RH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                   | 9-16 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Zentralanschl.<br>centr. connector | 0,50 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13359<br>EMV / EMC |
| Zusatz-Information:<br>Additional Information: |                                           |                                                          | Basic-Version mit Standard oder Dreieck-Rückstrahler<br>basic version with standard or triangle reflex reflector |                   |                         |                                       |                                    |                   |                          |          |                        |
|                                                | <b>10.2440.110</b><br>BBSNWR915b/9-16V/LH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                   | 9-16 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm       | 0,50 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13359<br>EMV / EMC |
|                                                | <b>10.2440.120</b><br>BBSNWR915b/9-16V/RH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                   | 9-16 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm       | 0,50 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13359<br>EMV / EMC |
| Zusatz-Information:<br>Additional Information: |                                           |                                                          | mit Dreieck-Rückstrahler<br>with triangle reflex reflector                                                       |                   |                         |                                       |                                    |                   |                          |          |                        |
|                                                | <b>10.2400.011</b><br>BBSNWR915b/9-32V/LH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                   | 9-32 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Zentralanschl.<br>centr. connector | 0,50 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13359<br>EMV / EMC |
|                                                | <b>10.2400.021</b><br>BBSNWR915b/9-32V/RH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                   | 9-32 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Zentralanschl.<br>centr. connector | 0,50 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13359<br>EMV / EMC |
| Zusatz-Information:<br>Additional Information: |                                           |                                                          | mit Dreieck-Rückstrahler<br>with triangle reflex reflector                                                       |                   |                         |                                       |                                    |                   |                          |          |                        |
|                                                | <b>10.2410.011</b><br>BBSNWR915b/9-32V/LH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                   | 9-32 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Zentralanschl.<br>centr. connector | 0,50 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13359<br>EMV / EMC |
|                                                | <b>10.2410.021</b><br>BBSNWR915b/9-32V/RH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                   | 9-32 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Zentralanschl.<br>centr. connector | 0,50 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13359<br>EMV / EMC |
| Zusatz-Information:<br>Additional Information: |                                           |                                                          | mit Standard-Rückstrahler (6-eckig)<br>with standard reflex reflector (hexagonal)                                |                   |                         |                                       |                                    |                   |                          |          |                        |
|                                                | <b>10.2420.010</b><br>BBSNWR915b/9-32V/LH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                   | 9-32 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm       | 0,50 kg           | -20 / +50°C<br>IP 67     | 20       | E13-13359<br>EMV / EMC |
|                                                | <b>10.2420.020</b><br>BBSNWR915b/9-32V/RH | LED-Multifunktionsleuchte<br>LED Multiple Function Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                                                   | 9-32 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm       | 0,50 kg           | -20 / +50°C<br>IP 67     | 20       | E13-13359<br>EMV / EMC |
| Zusatz-Information:<br>Additional Information: |                                           |                                                          | mit Standard-Rückstrahler (6-eckig)<br>with standard reflex reflector (hexagonal)                                |                   |                         |                                       |                                    |                   |                          |          |                        |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                     |                                                      |                                          |      |           |                                   |                                                                          |         |                    |   |           |
|--|-------------------------------------|------------------------------------------------------|------------------------------------------|------|-----------|-----------------------------------|--------------------------------------------------------------------------|---------|--------------------|---|-----------|
|  | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Thresholt:<br>25 mA (I=const.) | 12 V | 2 x 21 W  | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm                                         | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|  | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Thresholt:<br>20 mA (I=const.) | 24 V | 2 x 21 W  | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm                                         | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|  | <b>62.3020.100</b><br>LK 2000-1/12V | LED-Kontrollbox<br>LED Control Device                | Schaltsw./Thresholt:<br>25 mA            | 12 V | max.140 W | Aluminium / PU<br>schwarz - black | Kabel 1x 1500mm<br>Kabel 1x 2500mm<br>cable 1x 1500mm<br>cable 1x 2500mm | 2,60 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |

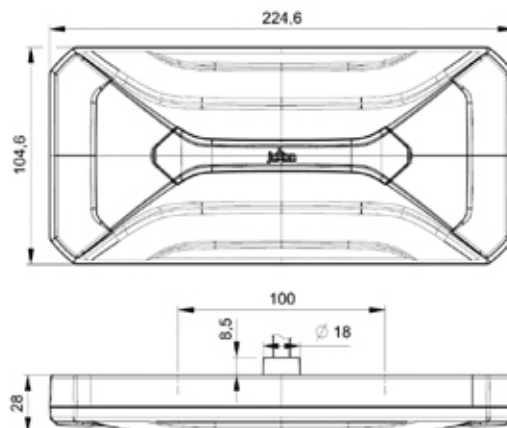
## LED-MULTIFUNKTIONSLEUCHE L 940 \* LED MULTIPLE FUNCTION LIGHT L 940

Unter Beibehaltung der Abmessungen wurden die seit Jahren erfolgreich im Markt etablierten LED-Leuchten des Typs L 930 weiterentwickelt. Äußerst effiziente und hochwertige Marken-LED's verbunden mit einem hohen Ansprüchen erfüllenden Design kennzeichnen die Nachfolgeneration L 940.

L 940 is the successor generation of the existing and successful L 930. Extremely efficient and high-quality brand-name LEDs combined with a design that meets high demands. Dimensions are the same.



Designentwurf, Änderungen vorbehalten,  
weitere Informationen auf Anfrage  
Design draft, changes reserved,  
further information on request



- Sehr kompaktes und attraktives Design
- Aufbau oder (vertiefter) Einbau
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Blinker: mit LDC (LED-Defect-Contr.); kombinierb. mit LK Kontrollbox
- Designblende zur Abdeckung der Befestigungsschrauben

- compact and attractive design
- designed for surface or (deepened) flush mounting
- incl. hidden membrane to balance thermodynamics
- DI function: with LDC (LED-Defect-Control) for combination with LK control device
- design cover for masking the fastening screws

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                              | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|--------------------------------------|----------------------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>10.3000.000</b><br>BBSWNR 940/12V | LED-Multifunktionsleuchte<br>LED Multiple Function Light |                      | 12 V              |                   | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm |                   | -20/+50°C<br>IP 67       |          |                      |
|                 | <b>10.3000.500</b><br>BBSWNR 940/24V | LED-Multifunktionsleuchte<br>LED Multiple Function Light |                      | 24 V              |                   | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm |                   | -20/+50°C<br>IP 67       |          |                      |

## LED-MULTIFUNKTIONSLEUCHTE L 930 \* LED MULTIPLE FUNCTION LIGHT L 930

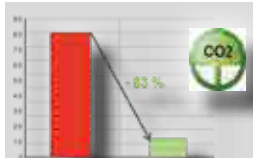
Die Leuchten der Serie 930 wurden unter Ausnutzung der durch die LED-Bestückung möglichen, äußerst kompakten Abmessungen entwickelt. Entstanden ist eine sehr flache LED-Multifunktionsleuchte mit allen Lichtfunktionen einschließlich Rückstrahler. Sie eignet sich durch ihr neutrales, aber sehr modernes Design für viele unterschiedliche Fahrzeugtypen.

LED usage enables an extremely compact light. The result is a very flat multifunctional LED light with all light functions including reflex-reflector. Because of the modern and neutral design the light fits perfectly to a lot of different vehicle types.

## Merkmale \* Features



- Charakteristisches Nachtdesign
- characteristic night design



- FULL-LED-Technologie für höchste Energie-Einsparung bis 83 %
- FULL-LED-technology for high energy savings up to 83 %



- Extrem flach, auch für Aufbau-Installation geeignet
- extremely flat, also suitable for surface mounting

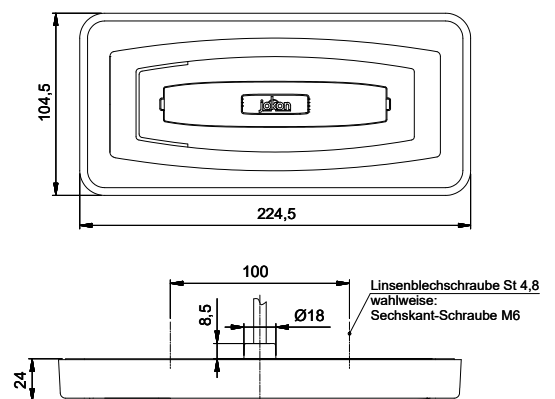


- Flexible Befestigung mit M6-Schraube als Stiebölzen (a) oder von vorne (b)
- flexible fixation with M6 as bolt (a) or from the front side (b)



- Kombinierbarkeit mit LED-Kontrollbox für Blinkeralkontrolle
- combination with device for LED failure control of direction indicator

## Technische Daten \* Technical Data



- Anbau: horizontal oder vertikal
- Zweifarbige PC-Lichtscheibe (rot / klar), Gehäuse PC schwarz
- Aufbau-Montage sowie vertiefter Einbau: horizontal
- Verdeckte Membran für thermodynamischen Ausgleich
- Mit verchromtem Designelement
- 9-32V; S-1W; BR-2W; BL-3W; SN-3W; W-4W
- 12V; S-2W; BR-2W; BL-4W; SN-4W; W-5W
- 24V; S-1W; BR-2W; BL-3W; SN-4W; W-5W

- mounting: horizontally or vertically
- 2-colour PC lens (red / clear), housing PC black
- surface mounting or flush fitting: horizontally
- non visible membrane for thermodynamic balance
- with chrom-plated design part
- 9-32V; S-1W; BR-2W; BL-3W; SN-3W; W-4W
- 12V; S-2W; BR-2W; BL-4W; SN-4W; W-5W
- 24V; S-1W; BR-2W; BL-3W; SN-2W; W-3W

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type           | Beschreibung<br>Description                              | Merkmale<br>Features                               | Spann.<br>Voltage | Leistung<br>Power       | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|----------------------------------------|----------------------------------------------------------|----------------------------------------------------|-------------------|-------------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>10.2300.002</b><br>BBSNR 930b/9-32V | LED-Multifunktionsleuchte<br>LED Multiple Function Light | ● BL BR ● S W SN R K SM<br>DI ST TL RV FL RR AP NP | 9-32 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm | 0,30 kg           | -20 / +50°C<br>IP 67     | 10       | E1-3110<br>EMV / EMC |
|                 | <b>10.2300.012</b><br>BBSNR 930b/9-32V | LED-Multifunktionsleuchte<br>LED Multiple Function Light | ● BL BR ● S W SN R K SM<br>DI ST TL RV FL RR AP NP | 9-32 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm | 0,30 kg           | -20 / +50°C<br>IP 67     | 10       | E1-3110<br>EMV / EMC |
|                 | <b>10.2300.022</b><br>BBSNR 930b/9-32V | LED-Multifunktionsleuchte<br>LED Multiple Function Light | ● BL BR ● S W SN R K SM<br>DI ST TL RV FL RR AP NP | 9-32 V            | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm | 0,30 kg           | -20 / +50°C<br>IP 67     | 10       | E1-3110<br>EMV / EMC |
|                 | <b>10.2300.402</b><br>BBSNR 930b/12V   | LED-Multifunktionsleuchte<br>LED Multiple Function Light | ● BL BR ● S W SN R K SM<br>DI ST TL RV FL RR AP NP | 12 V              | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm | 0,30 kg           | -20 / +50°C<br>IP 67     | 10       | E1-3110<br>EMV / EMC |
|                 | <b>10.2300.802</b><br>BBSNR 930b/24V   | LED-Multifunktionsleuchte<br>LED Multiple Function Light | ● BL BR ● S W SN R K SM<br>DI ST TL RV FL RR AP NP | 24 V              | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm | 0,30 kg           | -20 / +50°C<br>IP 67     | 10       | E1-3110<br>EMV / EMC |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                     |                                                      |                                         |      |            |                                   |                                                                          |         |                    |   |           |
|--|-------------------------------------|------------------------------------------------------|-----------------------------------------|------|------------|-----------------------------------|--------------------------------------------------------------------------|---------|--------------------|---|-----------|
|  | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Thresholt<br>25 mA (I=const.) | 12 V | 2 x 21 W   | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm                                         | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|  | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Thresholt<br>20 mA (I=const.) | 24 V | 2 x 21 W   | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm                                         | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|  | <b>62.3020.100</b><br>LK 2000-1/12V | LED-Kontrollbox<br>LED Control Device                | Schaltsw./Thresholt<br>25 mA            | 12 V | max. 140 W | Aluminium / PU<br>schwarz - black | Kabel 1x 1500mm<br>Kabel 1x 2500mm<br>cable 1x 1500mm<br>cable 1x 2500mm | 2,60 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|  | <b>19.2037.300</b>                  | Dekoblende schwarz<br>deco cover black               |                                         |      |            | PC<br>black                       |                                                                          |         |                    |   |           |



## LED-MULTIFUNKTIONSLEUCHE L 935 \* LED MULTIPLE FUNCTION LIGHT L 935

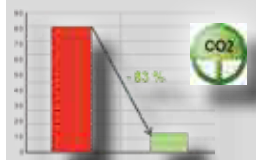
Die L 935 ist eine äußerst kompakte LED-Multifunktionsleuchte, die mit Blink-, Brems-, Schlusslichtfunktionen, incl. Rückstrahler ausgestattet ist. Sie lässt sich sowohl horizontal als auch vertikal montieren. Die sehr große LED-Anzahl - kombiniert in einer markanten Form - sorgt im Straßenverkehr für hohe Sicherheit und garantierte Wiedererkennung Ihres Fahrzeugs.

The L 935 is a very small LED multiple function light with direction indicator, stop and tail light and reflex reflector. The light can be mounted vertically or horizontally. The very large number of LEDs - combined in a distinctive shape - ensures high security on the road and guaranteed recognition of your vehicle.

## Merkmale \* Features



- Charakteristisches Nacht-Design
- characteristic night design



- FULL-LED-Technologie für höchste Energie-Einsparung bis 83 %
- FULL-LED-technology for high energy savings up to 83 %



- Extrem flach, auch für Aufbau-Installation geeignet
- extremely flat, also suitable for surface mounting

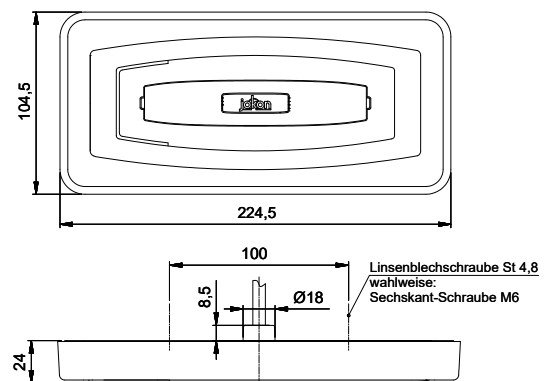


- Flexible Befestigung mit M6-Schraube als Stehbolzen (a) oder von vorne (b)
- flexible fixation with M6 as bolt (a) or from the frontside (b)



- Kombinierbarkeit mit LED-Kontrollbox für Blinkerausfallkontrolle
- combination with device for LED failure control of direction indicator

## Technische Daten \* Technical Data



- LED-Multifunktionsleuchte mit integriertem Rückstrahler
- 2-farbiges PC-Lichtschilde (rot / klar), Gehäuse PC schwarz
- Installation rückseitig (M6-Schraube) oder von vorne (ST4,8)
- Anbau: horizontal oder vertikal
- 12 und 24V Ausführungen; S-3 W; BR-6 W; BL-5 W
- Mit verchromtem Designteil
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Blinker: kombinierb. mit LK 100-2-X

- LED multiple function light with integrated reflex reflector
- 2-colour PC lens (red / clear), housing PC black
- installation from rear (M6 screw) or front (ST4,8)
- Mounting: horizontally or vertically
- 12 and 24V version; TL-3 W; ST-6 W; DI-5 W
- with chrome-plated design part
- incl. non visible membrane for thermodynamic balance
- DI function: combination with LK 100-2-X possible

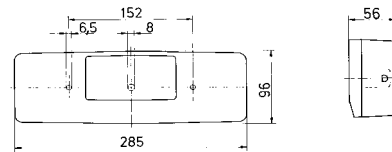
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                              | Merkmale<br>Features                         | Spann.<br>Voltage | Leistung<br>Power       | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------------|----------------------------------------------------------|----------------------------------------------|-------------------|-------------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>10.2600.002</b><br>BBSR 935/12V | LED-Multifunktionsleuchte<br>LED Multiple Function Light | ● BL ● BR ● DI ● TL ● RV ● FL ● RR ● NF ● SM | 12 V              | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm | 0,40 kg           | -20/+50°C<br>IP 67       | 10       | E1-3557              |
|                 | <b>10.2600.502</b><br>BBSR 935/24V | LED-Multifunktionsleuchte<br>LED Multiple Function Light | ● BL ● BR ● DI ● TL ● RV ● FL ● RR ● NF ● SM | 24 V              | siehe oben<br>see above | PC<br>rot-klar / red-clear            | Kabel 500 mm<br>cable 500 mm | 0,40 kg           | -20/+50°C<br>IP 67       | 10       | E1-3557              |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                     |                                                      |                                           |      |          |                                   |                                  |         |                    |   |           |
|--|-------------------------------------|------------------------------------------------------|-------------------------------------------|------|----------|-----------------------------------|----------------------------------|---------|--------------------|---|-----------|
|  | <b>62.3001.022</b><br>LK 100-2/12 V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Thresholt<br>90 mA bei / at 12V | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|  | <b>62.3002.022</b><br>LK 100-2/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Thresholt<br>50 mA bei / at 24V | 24 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|  | <b>19.2037.300</b>                  | Dekoblende schwarz<br>deco cover black               |                                           |      |          | PC<br>black                       |                                  |         |                    |   |           |

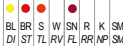
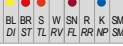
## MULTIFUNKTIONSLEUCHTE 496 \* MULTIPLE FUNCTION LIGHT 496

Mehrfunktionsleuchte mit den Funktionen Blink-Brems-Schluss-Nebelschlusslicht und wahlweiser Kennzeichenausleuchtung (für die linke Leuchte).  
 Multi-function light with indicator, brake, tail light and rear fog light and optional license plate illumination (only LH).



· Füllstück und Kennzeichenfenster im Lieferumfang enthalten

· optional use of the attached license plate window or filler piece

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                      | Merkmale<br>Features                                                              | Spann.<br>Voltage | Leistung<br>Power      | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval     |
|-----------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|------------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|--------------------------|
|  | <b>10.6001.470</b><br>BBSN 496 RH    | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | 2 x P21 W<br>2 x R 5 W | PMMA/ABS<br>gelb, rot - yellow, red   | Flachsteckungen<br>blade terminals | 0,44 kg           |                          | 12       | E1-0231469<br>E1-0153308 |
|                                                                                   | <b>10.6001.560</b><br>BBS(K)N 496 LH | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | 2 x P21 W<br>2 x R 5 W | PMMA/ABS<br>gelb, rot - yellow, red   | Flachsteckungen<br>blade terminals | 0,44 kg           |                          | 12       | E1-0231469<br>E1-0153308 |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                        |                                        |              |  |  |                               |  |         |  |    |                          |
|--|----------------------------------------|----------------------------------------|--------------|--|--|-------------------------------|--|---------|--|----|--------------------------|
|  | <b>19.6021.410</b><br>E/BBS(K)N 496 LH | Ersatzlichtscheibe<br>Replacement Lens | links<br>LH  |  |  | PMMA<br>rot-gelb / red-yellow |  | 0,22 kg |  | 10 | E1-0231469<br>E1-0153308 |
|  | <b>19.6021.430</b><br>E/BBSN 496 RH    | Ersatzlichtscheibe<br>Replacement Lens | rechts<br>RH |  |  | PMMA<br>rot-gelb / red-yellow |  | 0,22 kg |  | 10 | E1-0231469<br>E1-0153308 |

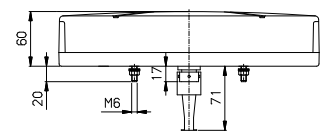
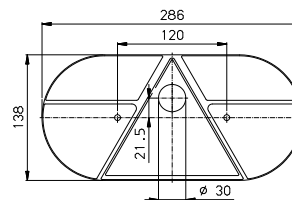
## LEUCHTEN-SYSTEM L 610 - 621 \* LIGHTING SYSTEM L 610 - 621

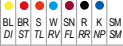
Multifunktionsleuchte mit Oval- oder Dreieck-Rückstrahler, Zentralanschluss sowie eingesetzten Glühlampen, schwingungsgedämpft und anschlussfertig. Die Leuchte ist auch ohne Zentralanschluss, mit Seitenmarkierungsleuchte, Kennzeichenausleuchtung unten und als 24 V Version verfügbar.

Glühlampen: P 21/ 5 W, 2 x P 21 W, PY 21 W, C 5 W.

Multiple Function Light with integrated triangle, or circular reflex reflector and central connection system, bulbs fitted, vibration damping, ready for surface mounting. The light is also available as a 24 V version, with Side Marker and Number Plate Light. Also available without central connection system.

Bulbs: P 21 / 5 W, 2 x P 21 W, PY 21 W, C 5 W.



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                                                | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power           | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-----------------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>10.2050.130</b><br>BBSKWN 610 LH | Multifunktionsleuchte Dreieck-RS<br>Multiple Function Light triangle refl. |  | 12 V              | PY21; P21/5W<br>2xP21W; C5W | PC / PPT T 60<br>rot-klar / red-clear | Zentral - 6 pol.<br>central 6 pins | 0,66 kg           |                          | 10       | E1-1206              |
|                                                                                     | <b>10.2050.140</b><br>BBSKWN 610 RH | Multifunktionsleuchte Dreieck-RS<br>Multiple Function Light triangle refl. |  | 12 V              | PY21; P21/5W<br>2xP21W; C5W | PC / PPT T 60<br>rot-klar / red-clear | Zentral - 6 pol.<br>central 6 pins | 0,66 kg           |                          | 10       | E1-1206              |
|  | <b>10.2051.610</b><br>BBSKWN 611 LH | Multifunktionsleuchte Dreieck-RS<br>Multiple Function Light triangle refl. |  | 12-24 V           |                             | PC / PPT T 60<br>rot-klar / red-clear | Kabelöffnung<br>cable lead-in      | 0,56 kg           |                          | 24       | E1-1206              |
|                                                                                     | <b>10.2051.620</b><br>BBSKWN 611 RH | Multifunktionsleuchte Dreieck-RS<br>Multiple Function Light triangle refl. |  | 12-24 V           |                             | PC / PPT T 60<br>rot-klar / red-clear | Kabelöffnung<br>cable lead-in      | 0,56 kg           |                          | 24       | E1-1206              |

Zusatz-Information:  
Additional Information:

Glühlampen nicht montiert / geeignet für 12 / 24 V Glühlampen  
 bulbs not fitted / suited for 12 / 24 V bulbs

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                    |                                                                     |                                 |  |  |                            |  |         |  |    |         |
|--|--------------------|---------------------------------------------------------------------|---------------------------------|--|--|----------------------------|--|---------|--|----|---------|
|  | <b>19.0060.100</b> | Ersatzlichtscheibe / Dreieck R.<br>Replacement Lens / triang. refl. | für alle Typen<br>for all types |  |  | PC<br>rot-klar / red-clear |  | 0,26 kg |  | 10 | E1-1206 |
|--|--------------------|---------------------------------------------------------------------|---------------------------------|--|--|----------------------------|--|---------|--|----|---------|

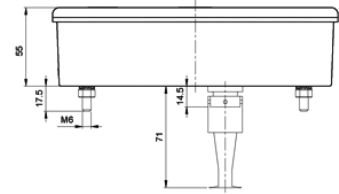
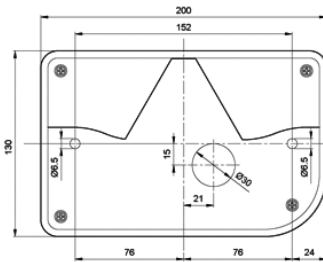
Zusatz-Information:  
Additional Information:

Weitere Ausführungen auf Anfrage / Zuleitungskabel auf Anfrage  
 Further types on request / Lead-In cables on request

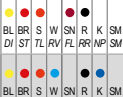
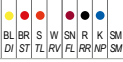
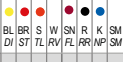
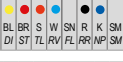
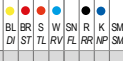
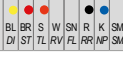
## LEUCHTEN-SYSTEM L 830 \* LIGHTING SYSTEM L 830

Sehr kompakte Mehrfunktionsleuchte mit wahlweise Nebelschlusslicht- bzw. Rückfahrcheinwerferfunktion. Standardmäßig mit Zentralanschluss und Dreieck-Rückstrahler ausgestattet, auf besonderen Kundenwunsch auch mit Rückstrahler und Kabelöffnung lieferbar.

Very compact multi-function light with optional rear fog light or reversing light function. Equipped with central connection and triangular reflector as standard, also available with reflector and cable hole on special customer request.



- Ausführung mit Zentralanschluss mit montierten Glühlampen 12 V
- Anschlussfertig
- Weitere Varianten auf Anfrage
- types with center connector including fitted bulbs
- ready for plug-in
- other variants on request

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                                    | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power       | Material / Farbe<br>Material / Colour  | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-------------------------|----------------------------------------|------------------------------------|-------------------|------------|----------|----------------------|
|    | <b>10.2110.010</b><br>BBSNDR 830 LH  | Multifunktionsleuchte / links<br>Multiple Function Light / LH  |    | 12 V              | PY21;P21/5W<br>P21W     | PMMA / PP T 60<br>rot-klar / red-clear | Zentral - 5 pol.<br>central 5 pins | 0,5 kg            |            | 16       | E2-06061             |
|                                                                                     | <b>10.2110.030</b><br>BBSWDR 830 LH  | Multifunktionsleuchte / links<br>Multiple Function Light / LH  |    | 12 V              | PY21;P21/5W<br>P21W/C5W | PMMA / PP T 60<br>rot-klar / red-clear | Zentral - 5 pol.<br>central 5 pins | 0,5 kg            |            | 16       | E2-06061             |
|   | <b>10.2110.040</b><br>BBSWDR 830 RH  | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH |    | 12 V              | PY21;P21/5W<br>C5W      | PMMA / PP T 60<br>rot-klar / red-clear | Zentral - 5 pol.<br>central 5 pins | 0,5 kg            |            | 16       | E2-06061             |
|                                                                                     | <b>10.2110.060</b><br>BBSDR 830 RH   | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH |  | 12 V              | PY21;P21/5W<br>C5W      | PMMA / PP T 60<br>rot-klar / red-clear | Zentral - 5 pol.<br>central 5 pins | 0,5 kg            |            | 16       | E2-06061             |
|  | <b>10.2110.110</b><br>BBSKNDR 830 LH | Multifunktionsleuchte / links<br>Multiple Function Light / LH  |  | 12 V              | PY21;P21/5W<br>P21W/C5W | PMMA / PP T 60<br>rot-klar / red-clear | Zentral - 5 pol.<br>central 5 pins | 0,5 kg            |            | 16       | E2-06061             |
|                                                                                     | <b>10.2110.120</b><br>BBSKNDR 830 RH | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH |  | 12 V              | PY21;P21/5W<br>P21W;C5W | PMMA / PP T 60<br>rot-klar / red-clear | Zentral - 5 pol.<br>central 5 pins | 0,5 kg            |            | 16       | E2-06061             |
|  | <b>10.2110.130</b><br>BBSKWDR 830 LH | Multifunktionsleuchte / links<br>Multiple Function Light / LH  |  | 12 V              | PY21;P21/5W<br>C5W      | PMMA / PP T 60<br>rot-klar / red-clear | Zentral - 5 pol.<br>central 5 pins | 0,5 kg            |            | 16       | E2-06061             |
|                                                                                     | <b>10.2110.140</b><br>BBSKWDR 830 RH | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH |  | 12 V              | PY21;P21/5W<br>P21W;C5W | PMMA / PP T 60<br>rot-klar / red-clear | Zentral - 5 pol.<br>central 5 pins | 0,5 kg            |            | 16       | E2-06061             |
|  | <b>10.2110.160</b><br>BBSKDR 830 RH  | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH |  | 12 V              | PY21;P21/5W<br>C5W      | PMMA / PP T 60<br>rot-klar / red-clear | Zentral - 5 pol.<br>central 5 pins | 0,5 kg            |            | 16       | E2-06061             |

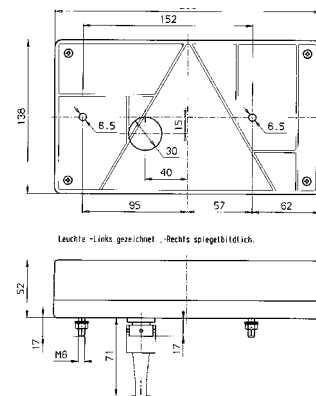
## Zubehör / Ersatzteile \* Accessories / Spare parts

|                                          |                                                      |                                   |  |  |                                          |  |         |  |    |          |
|------------------------------------------|------------------------------------------------------|-----------------------------------|--|--|------------------------------------------|--|---------|--|----|----------|
| <b>19.0070.110</b><br>E/BBS(KN)DR 830 LH | Ersatzlichtscheibe / links<br>Replacement Lens / LH  | für / for<br>10.2110.010 / ...110 |  |  | PMMA<br>rot-gelb / red-yellow            |  | 0,15 kg |  | 10 | E2-06061 |
| <b>19.0070.120</b><br>E/BBS(KN)DR 830 RH | Ersatzlichtscheibe / rechts<br>Replacement Lens / RH | für / for<br>10.2110.120          |  |  | PMMA<br>rot-gelb / red-yellow            |  | 0,15 kg |  | 10 | E2-06061 |
| <b>19.0070.130</b><br>E/BBS(KW)DR 830 LH | Ersatzlichtscheibe / links<br>Replacement Lens / LH  | für / for<br>10.2110.130          |  |  | PMMA<br>rot-gelb-klar / red-yellow-clear |  | 0,14 kg |  | 10 | E2-06061 |
| <b>19.0070.140</b><br>E/BBS(KW)DR 830 RH | Ersatzlichtscheibe / rechts<br>Replacement Lens / RH | für / for<br>10.2110.140          |  |  | PMMA<br>rot-gelb-klar / red-yellow-clear |  | 0,14 kg |  | 10 | E2-06061 |

## LEUCHTEN-SYSTEM L 595 \* LIGHTING SYSTEM L 595

Mehrfunktionsleuchte mit wahlweise Nebenschlusslicht- bzw. Rückfahrcheinwerferfunktion. Standardmäßig mit Zentralanschluss, Dreieck-Rückstrahler und Schwingungsdämpfern ausgestattet.

Multi-function light with optional rear fog light or reversing light function. With central connection, triangular reflector and vibration dampers as standard fit.



| · Inkl. montierten Glühlampen 12 V<br>· Anschlussfertig                             |                                    | · incl. fitted bulbs (12 V)<br>· ready for plug-in             |                                                                                                                                                                                                                                                       |                   |                    |                                       |                                    |                   |                          |          |                      |
|-------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                                    | Merkmale<br>Features                                                                                                                                                                                                                                  | Spann.<br>Voltage | Leistung<br>Power  | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|    | <b>10.2070.010</b><br>BBSN 595 LH  | Multifunktionsleuchte / links<br>Multiple Function Light / LH  | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P21; P21/5W        | PMMA / ABS<br>rot-gelb / red-yellow   | Zentral - 5 pol.<br>central 5 pins | 0,6 kg            |                          | 16       | E2-1281              |
|                                                                                     | <b>10.2070.110</b><br>BBSKN 595 LH | Multifunktionsleuchte / links<br>Multiple Function Light / LH  | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P21; P21/5W<br>C5W | PMMA / ABS<br>rot-gelb / red-yellow   | Zentral - 5 pol.<br>central 5 pins | 0,6 kg            |                          | 16       | E2-1281              |
|  | <b>10.2070.060</b><br>BBS 595 RH   | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P21; P21/5W        | PMMA / ABS<br>rot-gelb / red-yellow   | Zentral - 5 pol.<br>central 5 pins | 0,6 kg            |                          | 16       | E2-1281              |
|                                                                                     | <b>10.2070.160</b><br>BBSK 595 RH  | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P21; P21/5W<br>C5W | PMMA / ABS<br>rot-gelb / red-yellow   | Zentral - 5 pol.<br>central 5 pins | 0,6 kg            |                          | 16       | E2-1281              |
|  | <b>10.2070.020</b><br>BBSN 595 RH  | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P21; P21/5W        | PMMA / ABS<br>rot-gelb / red-yellow   | Zentral - 5 pol.<br>central 5 pins | 0,6 kg            |                          | 16       | E2-1281              |
|                                                                                     | <b>10.2070.120</b><br>BBSKN 595 RH | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P21; P21/5W<br>C5W | PMMA / ABS<br>rot-gelb / red-yellow   | Zentral - 5 pol.<br>central 5 pins | 0,6 kg            |                          | 16       | E2-1281              |
|  | <b>10.2070.040</b><br>BBSW 595 RH  | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P21; P21/5W        | PMMA / ABS<br>rot-gelb / red-yellow   | Zentral - 5 pol.<br>central 5 pins | 0,6 kg            |                          | 16       | E2-1281              |
|                                                                                     | <b>10.2070.140</b><br>BBSKW 595 RH | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P21; P21/5W<br>C5W | PMMA / ABS<br>rot-gelb / red-yellow   | Zentral - 5 pol.<br>central 5 pins | 0,6 kg            |                          | 16       | E2-1281              |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|                                                                                     |                                          |                                                      |                                            |  |  |                                          |                    |        |  |    |         |
|-------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------|--------------------------------------------|--|--|------------------------------------------|--------------------|--------|--|----|---------|
|  | <b>19.0063.110 E</b><br>E/BBS(K)N 595 LH | Ersatzlichtscheibe / links<br>Replacement Lens / LH  | 102070.010...110                           |  |  | PMMA<br>rot-gelb / red-yellow            |                    | 0,3 kg |  | 20 | E2-1281 |
|                                                                                     | <b>19.0063.120 E</b><br>E/BBS(K)N 595 RH | Ersatzlichtscheibe / rechts<br>Replacement Lens / RH | 102070.020...060<br>120, ...,160           |  |  | PMMA<br>rot-gelb / red-yellow            |                    | 0,3 kg |  | 20 | E2-1281 |
|                                                                                     | <b>19.0063.140 E</b><br>E/BBS(K)W 595 RH | Ersatzlichtscheibe / rechts<br>Replacement Lens / RH | 102070.040...140                           |  |  | PMMA<br>rot-gelb-klar / red-yellow-clear |                    | 0,3 kg |  | 20 | E2-1281 |
|  | <b>51.5540...</b>                        | Zuleitungskabel<br>Lead-in cable                     | 7 pol. St.1x5;1x4pol<br>7-pin PL1x5;1x4pin |  |  |                                          | Zentral<br>central |        |  |    |         |
|                                                                                     | <b>51.5551...</b>                        | Zuleitungskabel<br>Lead-in cable                     | 7 pol. St., 2x5 pol<br>7-pin PL, 2x5 pin   |  |  |                                          | Zentral<br>central |        |  |    |         |

Zusatz-Information:  
Additional Information:

Längen 4, 5, 7 m / weitere Längen und Varianten auf Anfrage  
Lengths 4, 5, 7 m / further lengths and variants on request



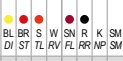
## LEUCHTEN-SYSTEM L 635 \* LIGHTING SYSTEM L 635

Mehrfunktionsleuchte mit Nebelschlusslicht- bzw. Rückfahrscheinwerferfunktion, Dreieck-Rückstrahler und Zentralanschluss.  
 Multiple function light with rear fog light or reversing light function, with central connection, triangular reflector and center connector.



- Inkl. montierten Glühlampen 12 V
- Anschlussfertig

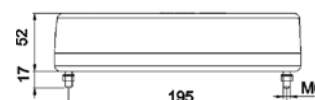
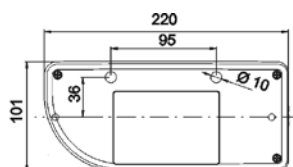
- incl. fitted bulbs (12 V)
- ready for plug-in

| Bild<br>Picture                                                                    | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                                    | Merkmale<br>Features                                                               | Spann.<br>Voltage | Leistung<br>Power        | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------|--------------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|   | <b>10.2082.010</b><br>BBSN 635 LH | Multifunktionsleuchte / links<br>Multiple Function Light / LH  |   | 12 V              | P21; P21/5W<br>P21W      | PMMA / ABS<br>rot-klar / red-clear    | Zentral - 5 pol.<br>central 5 pins | 0,6 kg            |                          | 25       | E9-5466              |
|  | <b>10.2082.040</b><br>BBSW 635 RH | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH |  | 12 V              | P21; P21/5W<br>P21W; C5W | PMMA / ABS<br>rot-klar / red-clear    | Zentral - 5 pol.<br>central 5 pins | 0,6 kg            |                          | 25       | E9-5466              |

## MULTIFUNKTIONSLEUCHTE 821 \* MULTIPLE FUNCTION LIGHT 821

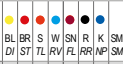
Sehr kompakte Mehrfunktionsleuchte mit allen Lichtfunktionen einschließlich Rückstrahler. Mittels zwei wahlweise nutzbaren Kabelöffnungen optimale Kabelführung bzw. Anschluss weiterer Leuchten z.B. Kennzeichenleuchten möglich.

Very compact multi-function lamp with all light functions including reflector. With two optionally usable cable openings, optimal cable routing or connection of further lights such as separate number-plate lights possible.



- Mit 2x 2,8 mm Flachzungen je Funktion
- Ausführungen mit und ohne Kennzeichenausleuchtung möglich

- with 2x 2,8 mm tabs for each function
- variants with or without number-plate function available

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                                    | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power           | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-----------------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>10.2043.111</b><br>BBSKWN 821 LH | Multifunktionsleuchte / links<br>Multiple Function Light / LH  |  | 12 V              | PY21; P21/5W<br>2xP21W; C5W | PMMA / PP<br>rot-klar / red-clear     | Flachsteckungen<br>blade terminals | 0,42 kg           |                          | 10       | E9-1423              |
|  | <b>10.2043.121</b><br>BBSKWN 821 RH | Multifunktionsleuchte / rechts<br>Multiple Function Light / RH |  | 12 V              | PY21; P21/5W<br>2xP21W; C5W | PMMA / PP<br>rot-klar / red-clear     | Flachsteckungen<br>blade terminals | 0,42 kg           |                          | 10       | E9-1423              |

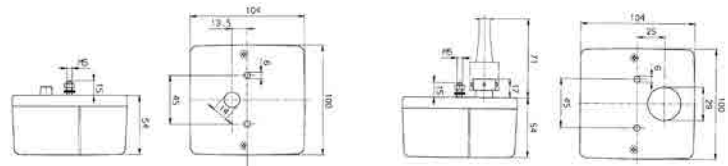
## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                      |                                        |              |  |  |                              |  |         |  |    |         |
|--|--------------------------------------|----------------------------------------|--------------|--|--|------------------------------|--|---------|--|----|---------|
|  | <b>19.0068.111</b><br>E/BBS(K)WN 821 | Ersatzlichtscheibe<br>Replacement Lens | links<br>LH  |  |  | PMMA<br>rot-klar / red-clear |  | 0,16 kg |  | 10 | E9-1423 |
|  | <b>19.0068.121</b><br>E/BBS(K)WN 821 | Ersatzlichtscheibe<br>Replacement Lens | rechts<br>RH |  |  | PMMA<br>rot-klar / red-clear |  | 0,16 kg |  | 10 | E9-1423 |

## MULTIFUNKTIONSLEUCHTE 206 \* MULTIPLE FUNCTION LIGHT 206

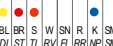
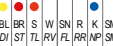
Sehr kompakte Mehrfunktionsleuchte vorwiegend für den landwirtschaftlichen Bereich mit Blink-Brems-Schlusslicht und wahlweise Kennzeichenausleuchtung. Die Leuchten Typ 206 sind mit Kabelöffnung oder als Varianten mit Zentralanschluss verfügbar.

Very compact multi-function light primarily for the agricultural sector with indicator, brake, tail light and optional license plate illumination. The lamps type 206 are available with a cable opening or as variants with a central connection.



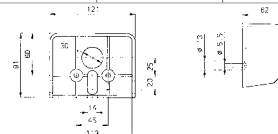
Leuchte 10.1035 ohne Zentralanschluß

- Ausführung ohne Zentralanschluss einschließlich Kennzeichenfenster und Füllstück
- Ausführung mit Zentralanschluss (ZA) mit montierten Glühlampen 12 V
- variant without center-connector including license plate window and red filler piece
- variants with center-connector with fitted bulbs 12 V

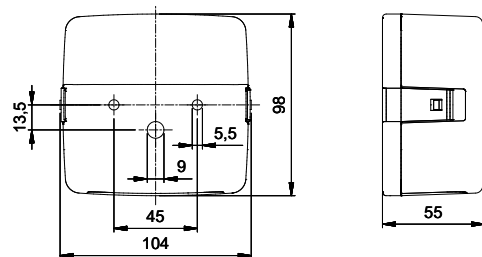
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                                         | Merkmale<br>Features                                                              | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|------------|----------------------|
|  | <b>10.1035.100</b><br>BBS(K) 206  | Multifunktionsleuchte<br>Multiple Function Light                    |  | 12 V              | P21 W<br>P21W/5W  | PMMA / PP<br>gelb, rot - yellow, red  | Kabelöffnung<br>cable entry        | 0,20 kg           |                          | 16<br>E/30 | E2-08066             |
|                                                                                   |                                   | Zusatz-Information:<br>Additional Information:                      |                                                                                   |                   |                   |                                       |                                    |                   |                          |            |                      |
|                                                                                   |                                   | wahlweise mit Kennzeichenfunktion<br>optional Number Plate function |                                                                                   |                   |                   |                                       |                                    |                   |                          |            |                      |
|  | <b>10.1036.000</b><br>BBS 206 ZA  | Multifunktionsleuchte<br>Multiple Function Light                    |  | 12 V              | P21 W<br>P21W/5W  | PMMA / PP<br>gelb, rot - yellow, red  | Zentral - 5 pol.<br>central 5 pins | 0,23 kg           |                          | 10         | E2-08066             |
|                                                                                   | <b>10.1036.100</b><br>BBSK 206 ZA | Multifunktionsleuchte<br>Multiple Function Light                    |  | 12 V              | P21 W<br>P21W/5W  | PMMA / PP<br>gelb, rot - yellow, red  | Zentral - 5 pol.<br>central 5 pins | 0,23 kg           |                          | 10         | E2-08066             |
|                                                                                   |                                   | Zusatz-Information:<br>Additional Information:                      |                                                                                   |                   |                   |                                       |                                    |                   |                          |            |                      |
|                                                                                   |                                   | Zuleitungskabel auf Anfrage<br>Connections cable on request         |                                                                                   |                   |                   |                                       |                                    |                   |                          |            |                      |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|                                                                                     |                              |                                        |                                 |  |  |                                 |  |         |  |            |          |
|-------------------------------------------------------------------------------------|------------------------------|----------------------------------------|---------------------------------|--|--|---------------------------------|--|---------|--|------------|----------|
|  | <b>19.0058.000</b><br>E/206  | Ersatzlichtscheibe<br>Replacement Lens | 10.1035.100<br>10.1036.000/ 100 |  |  | PMMA<br>gelb, rot - yellow, red |  | 0,09 kg |  | 20<br>E/40 | E2-08066 |
|  | <b>19.3005.001</b><br>SH 206 | Schutzhaube<br>Protective Cover        | 10.1035.100<br>10.1036.000/ 100 |  |  | ABS<br>schwarz - black          |  | 0,08 kg |  | 60<br>E/16 |          |



## MULTIFUNKTIONSLEUCHTE 205 \* MULTIPLE FUNCTION LIGHT 205



- Links oder rechts einsetzbar
- Kennzeichenfenster und Füllstück im Lieferumfang enthalten
- LH or RH applicable
- number plate window and red window included

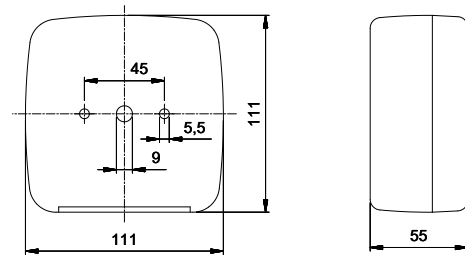
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description                      | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power  | Material / Farbe<br>Material / Colour     | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|--------------------|-------------------------------------------|------------------------------------|-------------------|--------------------------|------------|----------------------|
|  | <b>10.1002.100</b><br>BBS(K) 205 | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | 2 x P21 W<br>R10 W | SAN / ABS - PC<br>gelb, rot - yellow, red | Flachsteckungen<br>blade terminals | 0,20 kg           |                          | 30<br>E/40 | E1-0153305*          |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

## Zubehör / Ersatzteile \* Accessories / Spare parts

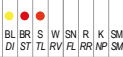
|  |                               |                                        |  |  |  |                                |  |         |  |            |             |
|--|-------------------------------|----------------------------------------|--|--|--|--------------------------------|--|---------|--|------------|-------------|
|  | <b>19.0007.000</b><br>E / 205 | Ersatzlichtscheibe<br>Replacement Lens |  |  |  | SAN<br>gelb, rot - yellow, red |  | 0,08 kg |  | 30<br>E/40 | E1-0153305* |
|--|-------------------------------|----------------------------------------|--|--|--|--------------------------------|--|---------|--|------------|-------------|

## MULTIFUNKTIONSLEUCHTE 390 \* MULTIPLE FUNCTION LIGHT 390



· Links oder rechts einsetzbar

· LH or RH applicable

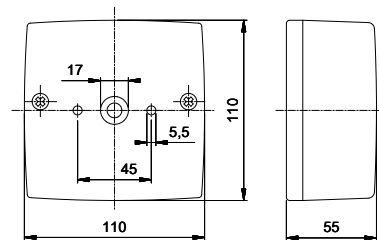
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description                      | Merkmale<br>Features                                                              | Spann.<br>Voltage | Leistung<br>Power   | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|--------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|---------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|-------------|----------------------|
|  | <b>10.1010.001</b><br>BBS 390  | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | 2 x P21 W<br>R 10 W | SAN / PA<br>gelb, rot - yellow, red   | Flachsteckungen<br>blade terminals | 0,24 kg           |                          | 15<br>E/ 30 | E1-0153285*          |
|                                                                                   | <b>10.1010.101</b><br>BBSK 390 | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | 2 x P21 W<br>R 10 W | SAN / PA<br>gelb, rot - yellow, red   | Flachsteckungen<br>blade terminals | 0,24 kg           |                          | 15<br>E/ 30 | E1-0153285*          |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                               |                                        |  |  |  |                                |  |         |  |             |             |
|--|-------------------------------|----------------------------------------|--|--|--|--------------------------------|--|---------|--|-------------|-------------|
|  | <b>19.0018.000</b><br>E / 390 | Ersatzlichtscheibe<br>Replacement Lens |  |  |  | SAN<br>gelb, rot - yellow, red |  | 0,09 kg |  | 20<br>E/ 40 | E1-0153285* |
|--|-------------------------------|----------------------------------------|--|--|--|--------------------------------|--|---------|--|-------------|-------------|

## MULTIFUNKTIONSLEUCHTE 404 \* MULTIPLE FUNCTION LIGHT 404

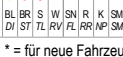


· Links oder rechts einsetzbar

· LH or RH applicable

· Kennzeichenfenster und Füllstück im Lieferumfang enthalten

· number plate window and red window included

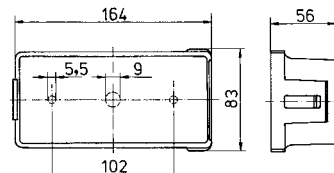
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description                      | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power  | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|--------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|-------------|----------------------|
|  | <b>10.1011.411</b><br>BBS(K) 404 | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | 2 x P21 W<br>R10 W | SAN / ABS<br>gelb, rot - yellow, red  | Flachsteckungen<br>blade terminals | 0,23 kg           |                          | 15<br>E/ 30 | E1-0153286*          |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

## Zubehör / Ersatzteile \* Accessories / Spare parts

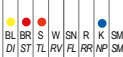
|  |                                      |                                        |  |  |  |                                |  |         |  |             |             |
|--|--------------------------------------|----------------------------------------|--|--|--|--------------------------------|--|---------|--|-------------|-------------|
|  | <b>19.0020.410</b><br>E / BBS(K) 404 | Ersatzlichtscheibe<br>Replacement Lens |  |  |  | SAN<br>gelb, rot - yellow, red |  | 0,13 kg |  | 10<br>E/ 40 | E1-0153286* |
|--|--------------------------------------|----------------------------------------|--|--|--|--------------------------------|--|---------|--|-------------|-------------|

## MULTIFUNKTIONSLEUCHTE 580 \* MULTIPLE FUNCTION LIGHT 580

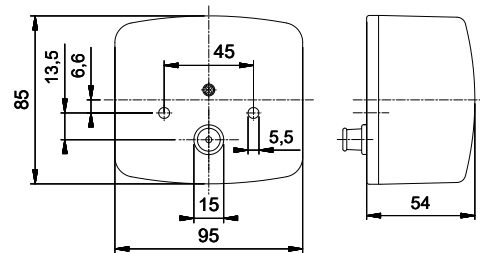


· Füllstück und Kennzeichenfenster im Lieferumfang enthalten

· optional use of the attached license plate window or filler piece

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description                      | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power  | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|--------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>10.1017.101</b><br>BBS(K) 580 | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | P 21 W<br>P 21/5 W | SAN/ABS<br>rot-gelb / red-yellow      | Flachsteckungen<br>blade terminals | 0,20 kg           |                          | 10       | E1-0253381           |

**MULTIFUNKTIONSLEUCHTE 215 \* MULTIPLE FUNCTION LIGHT 215**



· Kennzeichenfenster und Füllstück im Lieferumfang enthalten

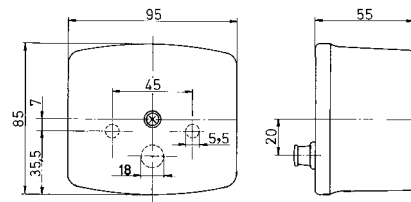
· number plate window and red window included

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                             | Merkmale<br>Features                                                                                                 | Spann.<br>Voltage | Leistung<br>Power   | Material / Farbe<br>Material / Colour           | Anschluss<br>Connection              | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------|---------------------|-------------------------------------------------|--------------------------------------|-------------------|--------------------------|------------|----------------------|
|  | <b>10.1003.110</b><br>BBS(K) 215 LH | Multifunktionsleuchte<br><i>Multiple Function Light</i> | <div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> </div> | 12 V              | 2 x P21 W<br>R 10 W | SANBlech/sheet metal<br>gelb, rot - yellow, red | Schraubanschlüsse<br>screw terminals | 0,19 kg           |                          | 10<br>E/75 | E1-43369 *           |
|                                                                                   | <b>10.1003.120</b><br>BBS(K) 215 RH | Multifunktionsleuchte<br><i>Multiple Function Light</i> | <div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> <div>●</div> </div> | 12 V              | 2 x P21 W<br>R 10 W | SANBlech/sheet metal<br>gelb, rot - yellow, red | Schraubanschlüsse<br>screw terminals | 0,19 kg           |                          | 10<br>E/75 | E1-43369 *           |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                       |                                               |                     |  |  |                                      |  |         |  |                           |            |
|--|---------------------------------------|-----------------------------------------------|---------------------|--|--|--------------------------------------|--|---------|--|---------------------------|------------|
|  | <b>19.0008.110</b><br>E/BBS(K) 215 LH | Ersatzlichtscheibe<br><i>Replacement Lens</i> | links<br><i>LH</i>  |  |  | SAN<br>gelb, rot / <i>red-yellow</i> |  | 0,07 kg |  | 10<br><small>E/75</small> | E1-43369 * |
|  | <b>19.0008.120</b><br>E/BBS(K) 215 RH | Ersatzlichtscheibe<br><i>Replacement Lens</i> | rechts<br><i>RH</i> |  |  | SAN<br>gelb, rot / <i>red-yellow</i> |  | 0,07 kg |  | 10<br><small>E/75</small> | E1-43369 * |

**MULTIFUNKTIONSLEUCHTE 6025 \* MULTIPLE FUNCTION LIGHT 6025**



· Kennzeichenfenster und Füllstück im Lieferumfang enthalten

· number plate window and red window included

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                             | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power   | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                   | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP          | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|---------------------|---------------------------------------|-------------------------------------------|-------------------|--------------------------|-------------|----------------------|
|  | <b>10.6025.110</b><br>BBS(K) 6025 LH | Multifunktionsleuchte<br><i>Multiple Function Light</i> |  | 12 V              | 2 x P21 W<br>R 10 W | PMMA/PA<br>gelb, rot - yellow, red    | Flachsteckungen<br><i>blade terminals</i> | 0,15 kg           |                          | 10<br>E/ 30 | E1-0163248           |
|  | <b>10.6025.120</b><br>BBS(K) 6025 RH | Multifunktionsleuchte<br><i>Multiple Function Light</i> |  | 12 V              | 2 x P21 W<br>R 10 W | PMMA/PA<br>gelb, rot - yellow, red    | Flachsteckungen<br><i>blade terminals</i> | 0,15 kg           |                          | 10<br>E/ 30 | E1-0163248           |

## Zubehör / Ersatzteile \* Accessories / Spare parts

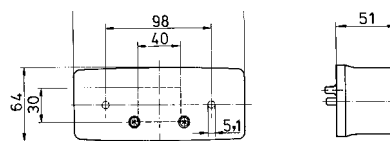
|                                        |                                               |                     |  |  |                                       |  |         |  |             |            |
|----------------------------------------|-----------------------------------------------|---------------------|--|--|---------------------------------------|--|---------|--|-------------|------------|
| <b>19.6037.110</b><br>E/BBS(K) 6025 LH | Ersatzlichtscheibe<br><i>Replacement Lens</i> | links<br><i>LH</i>  |  |  | PMMA<br>gelb, rot / <i>red-yellow</i> |  | 0,08 kg |  | 10<br>E/ 75 | E1-0163248 |
| <b>19.6037.120</b><br>E/BBS(K) 6025 RH | Ersatzlichtscheibe<br><i>Replacement Lens</i> | rechts<br><i>RH</i> |  |  | PMMA<br>gelb, rot / <i>red-yellow</i> |  | 0,08 kg |  | 10<br>E/ 75 | E1-0163248 |

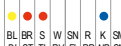
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description                          | Merkmale<br>Features                                                                                                            | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour   | Anschluss<br>Connection                   | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU                                                                                  | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-----------------------------------------|-------------------------------------------|-------------------|--------------------------|-------------------------------------------------------------------------------------------|----------------------|
|  | <b>11.0025.010</b><br>BP 1025 LH | Blink-Begrenzungsleuchte<br><i>DI / Marker Light</i> |  BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | P 21 W +<br>R 5 W | PMMA / PA<br>gelb, klar - yellow, clear | Flachsteckungen<br><i>blade terminals</i> | 0,14 kg           |                          | 10<br> | E1-438               |
|                                                                                     | <b>11.0025.020</b><br>BP 1025 RH | Blink-Begrenzungsleuchte<br><i>DI / Marker Light</i> |  BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | P 21 W +<br>R 5 W | PMMA / PA<br>gelb, klar - yellow, clear | Flachsteckungen<br><i>blade terminals</i> | 0,14 kg           |                          | 10<br> | E1-438               |



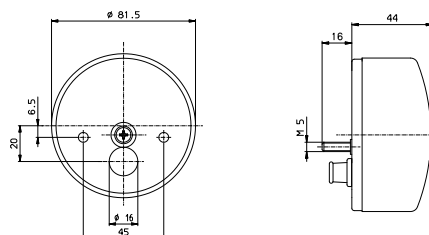
## MULTIFUNKTIONSLEUCHTE 516 \* MULTIPLE FUNCTION LIGHT 516

Mehrfunktionsleuchte mit den Funktionen Blink-Brems-Schlusslicht und wahlweiser Kennzeichenausleuchtung.  
Multi-function light with indicator, brake, tail light and optional license plate illumination.



| · Kennzeichenfenster und Füllstück im Lieferumfang enthalten                      |                                       |                                                  |                                                                                   | · number plate window and red window included |                     |                                       |                                    |                   |                          |             |                        |
|-----------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------|---------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|-------------|------------------------|
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type          | Beschreibung<br>Description                      | Merkmale<br>Features                                                              | Spann.<br>Voltage                             | Leistung<br>Power   | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval   |
|  | <b>10.6014.111</b><br>BBS(K) 516 LH   | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V                                          | 2 x P21 W<br>R 10 W | PMMA/PA<br>rot-gelb / red-yellow      | Flachsteckungen<br>blade terminals | 0,17 kg           |                          | 10<br>E/ 50 | E1-01559<br>E1-0153329 |
|  | <b>10.6014.121</b><br>BBS(K) 516 RH   | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V                                          | 2 x P21 W<br>R 10 W | PMMA/PA<br>rot-gelb / red-yellow      | Flachsteckungen<br>blade terminals | 0,17 kg           |                          | 10<br>E/ 50 | E1-01559<br>E1-0153329 |
| Zubehör / Ersatzteile * Accessories / Spare parts                                 |                                       |                                                  |                                                                                   |                                               |                     |                                       |                                    |                   |                          |             |                        |
|                                                                                   | <b>19.6023.111</b><br>E/BBS(K) 516 LH | Ersatzlichtscheibe<br>Replacement Lens           | links<br>LH                                                                       |                                               |                     | PMMA<br>rot-gelb / red-yellow         |                                    | 0,10 kg           |                          | 20<br>E/ 50 | E1-01559<br>E1-0153329 |
|                                                                                   | <b>19.6023.121</b><br>E/BBS(K) 516 RH | Ersatzlichtscheibe<br>Replacement Lens           | rechts<br>RH                                                                      |                                               |                     | PMMA<br>rot-gelb / red-yellow         |                                    | 0,10 kg           |                          | 20<br>E/ 50 | E1-01559<br>E1-0153329 |

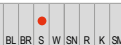
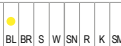
## MULTIFUNKTIONSLEUCHTE 25 / 26 \* MULTIPLE FUNCTION LIGHT 25 / 26

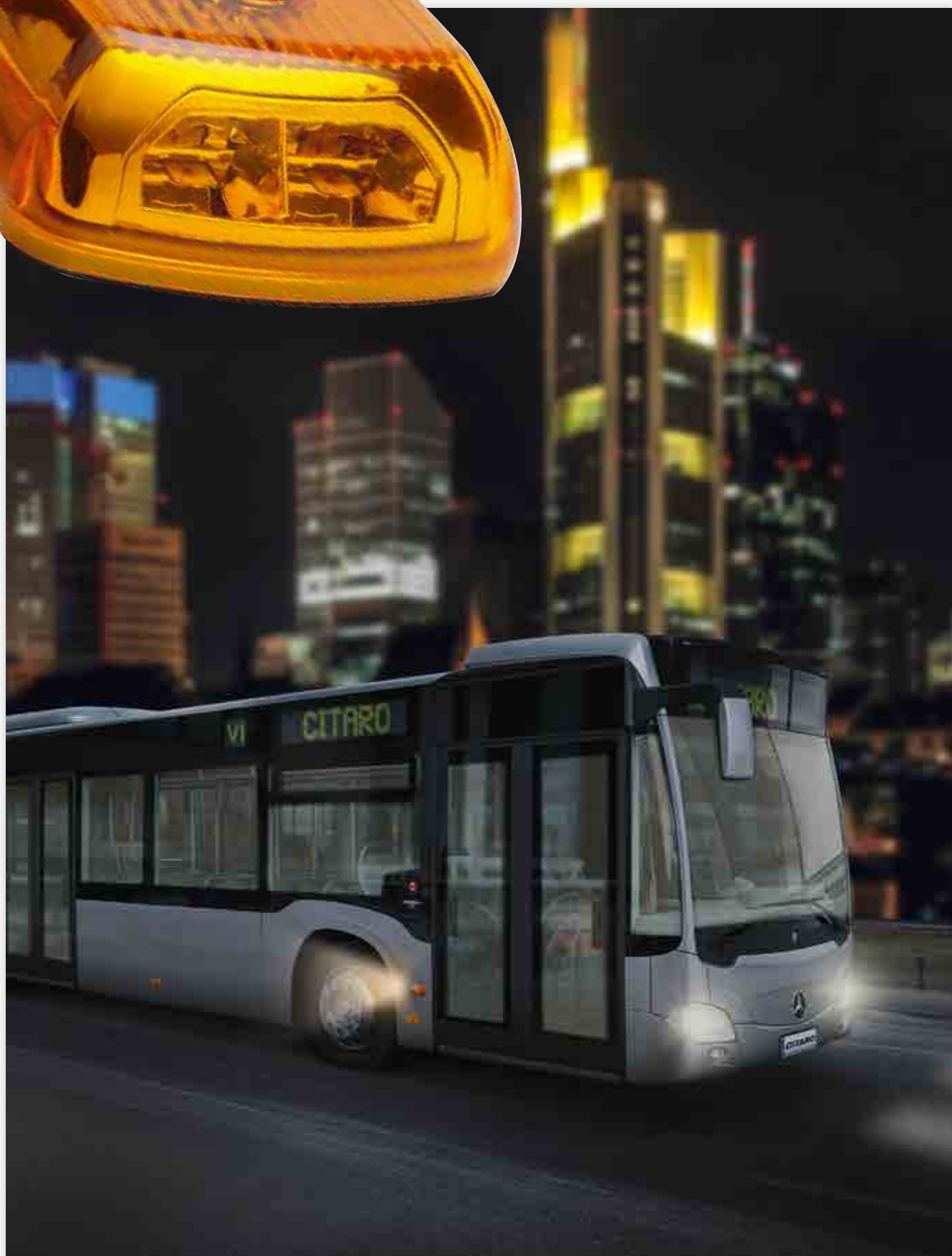


| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                      | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour             | Anschluss<br>Connection             | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------------------|-------------------------------------|-------------------|--------------------------|-------------|----------------------|
|  | <b>10.0002.000</b><br>BS 25  | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | P21 W<br>C 5 W    | PMMA/Blech-sheetmetal<br>rot-gelb / red-yellow    | Schraubanschluss<br>screw terminals | 0,13 kg           |                          | 10<br>E/ 75 | E1-43318 *           |
|                                                                                     | <b>10.0002.100</b><br>BSK 25 | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | P21 W<br>R 5 W    | PMMA/Blech-sheetmetal<br>rot-gelb / red-yellow    | Schraubanschluss<br>screw terminals | 0,13 kg           |                          | 10<br>E/ 75 | E1-43318 *           |
|  | <b>11.0001.000</b><br>BP 25  | Blink-Positionsleuchte<br>DI / Marker Light      |  | 12 V              | P21 W<br>C 5 W    | PMMA/Blech-sheetmetal<br>klar-gelb / clear-yellow | Schraubanschluss<br>screw terminals | 0,13 kg           |                          | 10<br>E/ 75 | E1-43320 *           |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

|                                                   |                                |                                        |             |  |  |                                  |  |         |  |             |            |
|---------------------------------------------------|--------------------------------|----------------------------------------|-------------|--|--|----------------------------------|--|---------|--|-------------|------------|
| Zubehör / Ersatzteile * Accessories / Spare parts |                                |                                        |             |  |  |                                  |  |         |  |             |            |
|                                                   | <b>19.0003.000</b><br>E/BS 25  | Ersatzlichtscheibe<br>Replacement Lens | 10.0002.000 |  |  | PMMA<br>rot-gelb / red-yellow    |  | 0,05 kg |  | 10<br>E/ 75 | E1-43318 * |
|                                                   | <b>19.0003.100</b><br>E/BSK 25 | Ersatzlichtscheibe<br>Replacement Lens | 10.0002.100 |  |  | PMMA<br>rot-gelb / red-yellow    |  | 0,05 kg |  | 10<br>E/ 75 | E1-43318 * |
|                                                   | <b>19.0003.200</b><br>E/BP 25  | Ersatzlichtscheibe<br>Replacement Lens | 11.0001.000 |  |  | PMMA<br>klar-gelb / clear-yellow |  | 0,05 kg |  | 10<br>E/ 75 | E1-43320 * |

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                      | Merkmale<br>Features                                                                | Spann.<br>Voltage | Glühl. / Leist.<br>Bulb / Power | Material / Farbe<br>Material / Colour          | Anschluss<br>Connection             | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|---------------------------------|------------------------------------------------|-------------------------------------|-------------------|--------------------------|-------------|----------------------|
|  | <b>10.0007.000</b><br>BS 26  | Multifunktionsleuchte<br>Multiple Function Light |  | 12 V              | P21 W<br>C 5 W                  | APEC/Blech-sheetmetal<br>rot-gelb / red-yellow | Schraubanschluss<br>screw terminals | 0,13 kg           |                          | 10<br>E/ 75 | E1-1053              |
|  | <b>10.0007.500</b><br>S 26   | Schlussleuchte<br>Tail Light                     |  | 12 V              | C 5 W                           | APEC/Blech-sheetmetal<br>rot / red             | Schraubanschluss<br>screw terminals | 0,13 kg           |                          | 10<br>E/ 75 | E1-1053              |
|  | <b>11.0002.000</b><br>BP 26  | Blink-Positionsleuchte<br>DI / Marker Light      |  | 12 V              | P21 W<br>C 5 W                  | APEC/Blech-sheetmetal<br>klar / clear          | Schraubanschluss<br>screw terminals | 0,13 kg           |                          | 10<br>E/ 75 | E2-9040              |



BLINKLEUCHTEN, ZUSATZBREMSLEUCHTEN, SCHLUSSLEUCHTEN  
DIRECTION INDICATOR LIGHTS, HIGH LEVEL STOP LIGHTS (CHMSL), TAIL LIGHTS

## LEUCHTENSERIE L 2011 \* LIGHT SERIES L 2011

Die LED-Leuchten der Serie L 2011 überzeugen mit ihrer äußerst kompakten Bauform. Zwei HighPower-LEDs sorgen in Verbindung mit einer hocheffizienten Schaltregler-Elektronik und einer wärmeableitenden Metallkern-Leiterkarte für eine optimale Lichtausbeute.

The LED lights of the series L 2011 convince with a very compact design. Two high power LED assure an optimal light output - in combination with a high efficiency switching circuit and a metal core PCB.

## Merkmale \* Features



- Extrem flach, ideal für Aufbau-Installation geeignet
- Extremely flat, suitable for surface mounting



- Hochwertige LEDs von Marken-Herstellern (OSRAM)
- High-grade LEDs from well known brands (OSRAM)



- flexible Befestigung mit M4-Schraube als Stehbolzen (a) oder von vorne (b)
- flexible fixation with M4 as bolt (a) or from the front side (b)



- Einzeldraderabdichtung für maximalen IP-Schutz und Funktionssicherheit
- Single wire insulation for high IP protection class and max. reliability



- Mit Microfaser-Membran für optimalen thermodyn. Ausgleich
- With microfibre membrane for optimal thermodynamic balance

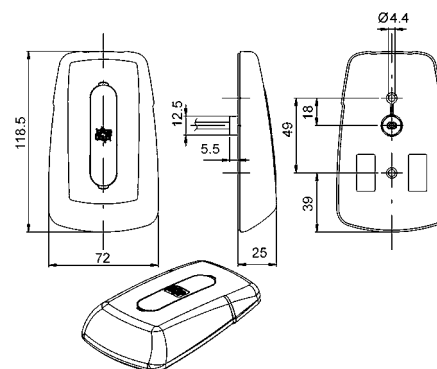
## Technische Daten \* Technical Data



BL 2011



BL 2011-2



- Seitliche LED-Blinkleuchte gem. ECE-R6 / Kat. 5+6
- Aufbau-Montage
- PMMA-Lichtscheibe, Boden ABS / PC hellgrau
- Mit verchromtem Designteil
- Installation rückseitig (M4-Schraube) oder von vorne (ST3,5)
- Inkl. 300 mm ADR-Mantelkabel 2 x 1,0 mm<sup>2</sup> / 6,3 mm Flachsteckungen
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Inkl. Zubehör: EPDM-Dichtung 1 mm / ST3,5-Schrauben (V2A)
- Mit LDC (LED-Defect-Contr.); kombinierbar mit LK 100-1-X

- side LED Direction Indicator according to ECE-R6 / Cat. 5+6
- designed for surface mounting
- PMMA lens, housing ABS / PC light grey
- incl. chrome-plated design part
- installation from rear (M4 screw) or front (ST3,5)
- incl. 300 mm ADR cable 2 x 1.0 mm<sup>2</sup> / 6.3 mm blade terminal
- incl. non visible membrane for thermodynamic balance
- incl. accessory: EPDM gasket 1 mm / ST3.5-screws (stainl.)
- with LDC (LED-Defect-Control); combination with LK 100-1-X possible

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type           | Beschreibung<br>Description                       | Merkmale<br>Features                             | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                  | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU     | Homolog.<br>Approval   |
|-----------------|----------------------------------------|---------------------------------------------------|--------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------------|-------------------|--------------------------|--------------|------------------------|
|                 | <b>13.1049.000</b><br>BL 2011-2/9-32 w | LED-Blinkleuchte Kat. 5/6<br>Side LED-DI Cat. 5/6 | ● BL BR S W SN R K SM<br>DI ST TL RV FL RR NP IM | 9-32 V            | 3 W               | PMMA / ABS-PC<br>klar - clear         | Kabel 300 mm / ADR<br>cable 300 mm / ADR | 0,11 kg           | -20 / +70°C<br>IP 67     | 20<br>E / 23 | E13-12809<br>EMV / EMC |
|                 | <b>13.1049.500</b><br>BL 2011/9-32 g   | LED-Blinkleuchte Kat. 5/6<br>Side LED-DI Cat. 5/6 | ● BL BR S W SN R K SM<br>DI ST TL RV FL RR NP IM | 9-32 V            | 3 W               | PMMA / ABS-PC<br>gelb - yellow        | Kabel 300 mm / ADR<br>cable 300 mm / ADR | 0,11 kg           | -20 / +70°C<br>IP 67     | 20<br>E / 23 | E13-12809<br>EMV / EMC |
|                 | <b>13.1051.000</b><br>BL 2011-2/9-32 w | LED-Blinkleuchte Kat. 5/6<br>Side LED-DI Cat. 5/6 | ● BL BR S W SN R K SM<br>DI ST TL RV FL RR NP IM | 9-32 V            | 3 W               | PMMA / ABS-PC<br>klar - clear         | Kabel 300 mm / ADR<br>cable 300 mm / ADR | 0,11 kg           | -20 / +70°C<br>IP 67     | 20<br>E / 23 | E13-12809<br>EMV / EMC |
|                 | <b>13.1051.500</b><br>BL 2011-2/9-32 g | LED-Blinkleuchte Kat. 5/6<br>Side LED-DI Cat. 5/6 | ● BL BR S W SN R K SM<br>DI ST TL RV FL RR NP IM | 9-32 V            | 3 W               | PMMA / ABS-PC<br>gelb - yellow        | Kabel 300 mm / ADR<br>cable 300 mm / ADR | 0,11 kg           | -20 / +70°C<br>IP 67     | 20<br>E / 23 | E13-12809<br>EMV / EMC |

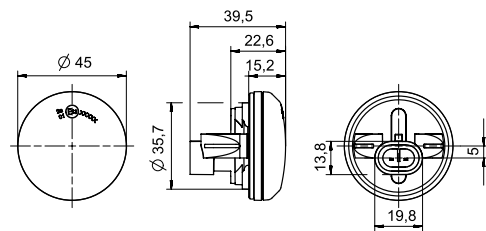
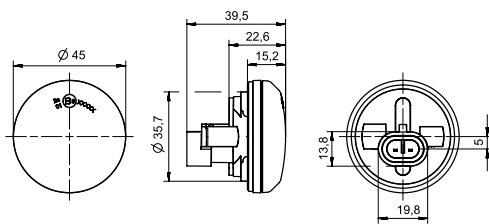
## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                     |                                                      |                                         |      |          |                                   |                                    |         |                    |   |           |
|--|-------------------------------------|------------------------------------------------------|-----------------------------------------|------|----------|-----------------------------------|------------------------------------|---------|--------------------|---|-----------|
|  | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Threshold<br>25 mA (I=const.) | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500 mm<br>cable 2x1500 mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|  | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw./Threshold<br>20 mA (I=const.) | 24 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500 mm<br>cable 2x1500 mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |

Weitere Blinkleuchten unter Leuchtensystemen  
Further indicator lights in chapter light systems

## LED-BLINKLEUCHTE BL 45 \* LED DIRECTION INDICATOR BL 45

LED-Blinkleuchte entsprechend Reglement 6, Kategorie 5 (Seitlicher Fahrtrichtungsanzeiger) mit AMP-Super Seal-Zentralanschluss in 2 Basisausführungen lieferbar.  
 LED indicator light according to regulation 6, category 5 (side direction indicator) with AMP Super Seal central connection available in 2 basic versions.



- Einbau-Montage
- Bajonett- oder Clipsbefestigung wählbar
- Kann in beliebigem Winkel (360°/X-Achse) angebracht werden
- Bis 25% Neigung nach oben und 30% zur Seite montierbar
- ECE-R48 Zulassung plus FVMSS 108 (SAE-DOT)

- flush-fitting
- bayonet or clip installation selectable
- can be mounted in any angle (360°/X-axis)
- can be mounted with an installation of 25° upwards and 30° sideways
- ECE-R 48 approval plus FVMSS 108 (SAE-DOT)

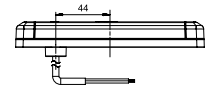
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type             | Beschreibung<br>Description                 | Merkmale<br>Features                                                                                   | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour       | Anschluss<br>Connection  | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------------------|---------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------------|--------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>13.1070.000</b><br>BL 45/12V Bajonett | LED-Blinkleuchte<br>LED direction indicator | <ul style="list-style-type: none"> <li>BL BR S W SN R K PL</li> <li>DI ST TL RV FL RR NP PL</li> </ul> | 12 V              | 1 W               | PMMA gelb/ ABS sw<br>PA yellow / ABS black  | AMP-2 pol.<br>AMP-2 pins | 0,02 kg           | -20/+50°C<br>IP 67       | 105      | E13-36182            |
|                 | <b>13.1070.500</b><br>BL 45/12V Bajonett | LED-Blinkleuchte<br>LED direction indicator | <ul style="list-style-type: none"> <li>BL BR S W SN R K PL</li> <li>DI ST TL RV FL RR NP PL</li> </ul> | 12 V              | 1 W               | PMMA klar / ABS sw<br>PA clear / ABS black  | AMP-2 pol.<br>AMP-2 pins | 0,02 kg           | -20/+50°C<br>IP 67       | 105      | E13-36182            |
|                 | <b>13.1071.000</b><br>BL 45/12V Clips    | LED-Blinkleuchte<br>LED direction indicator | <ul style="list-style-type: none"> <li>BL BR S W SN R K PL</li> <li>DI ST TL RV FL RR NP PL</li> </ul> | 12 V              | 1 W               | PMMA gelb/ ABS sw<br>PA clear / ABS black   | AMP-2 pol.<br>AMP-2 pins | 0,02 kg           | -20/+50°C<br>IP 67       | 105      | E13-36182            |
|                 | <b>13.1071.500</b><br>BL 45/12V Clips    | LED-Blinkleuchte<br>LED direction indicator | <ul style="list-style-type: none"> <li>BL BR S W SN R K PL</li> <li>DI ST TL RV FL RR NP PL</li> </ul> | 12 V              | 1 W               | PMMA klar / ABS sw<br>PA yellow / ABS black | AMP-2 pol.<br>AMP-2 pins | 0,02 kg           | -20/+50°C<br>IP 67       | 105      | E13-36182            |



## LED-LEUCHTEN-SYSTEM L 260 \* LED LIGHTING SYSTEM L 260

Die LED-Blink-Positionsleuchte L 260 besticht durch ein modernes und äußerst homogenes Erscheinungsbild der leuchtenden Flächen, verbunden mit einer sehr kompakten, stabförmigen Bauform mit verdeckter Schraubbefestigung. Die LED-Leuchten sind anschlussfertig, wasserdicht vergossen, mit einer Druckausgleichsmembrane versehen und verfügen über ein Anschlusskabel von 500 mm Länge. Die Leuchten sind für den Aufbau und für den Einbau geeignet. Weitere Informationen siehe Seite 13.

The L 260 lighting system impresses with its modern and extremely homogeneous appearance of the luminous surfaces. Combined with a very compact, bar-shaped design with concealed screw fixing. The LED lights are ready for plug-in, waterproof sealed, equipped with a non-visible membrane for thermodynamic balance and have a connecting cable of 500 mm length. The lights are suitable for surface mounting and flush mounting. Further information page 13.



- Inkl. schwarzer Abdeckkappen (Farbvarianten auf Anfrage)
- Aufbau-Montage sowie vertiefter Einbau
- Einzelader-Abdichtung für optimale Wasserdichtigkeit

- incl. black cover caps (colour variants on request)
- surface mounting or flush mounting
- single wire insulation for perfect water tightness

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description                           | Merkmale<br>Features                                                                                                                                                                                                                                  | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour         | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-----------------------------------------------|------------------------------|-------------------|--------------------------|----------|------------------------|
|  | <b>11.0026.000</b><br>BP 260/12V | LED-Blink-Begrenzungsleuchte<br>LED-DI / Marker Light | <div> <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> <div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> </div> | 12V<br>DC         | 2,0 / 1,0 W       | PC - klar / clear<br>ABS-PC - schwarz / black | Kabel 500 mm<br>cable 500 mm |                   | IP 67                    | 16       | E13-35232<br>EMV / EMC |
| Zusatz-Information:<br>Additional Information:                                    |                                  |                                                       | mit LED-Defect-Control (LDC) / Impulsgeber<br>with LED defect control (LDC) / Impuls                                                                                                                                                                  |                   |                   |                                               |                              |                   |                          |          |                        |
|  | <b>11.0027.000</b><br>BP 260/12V | LED-Blink-Begrenzungsleuchte<br>LED-DI / Marker Light | <div> <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> <div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> </div> | 12V<br>DC         | 2,0 / 1,0 W       | PC - klar / clear<br>ABS-PC - schwarz / black | Kabel 500 mm<br>cable 500 mm |                   | IP 67                    | 16       | E13-35232<br>EMV / EMC |
| Zusatz-Information:<br>Additional Information:                                    |                                  |                                                       | mit LED-Defect-Control (LDC)<br>with LED defect control (LDC)                                                                                                                                                                                         |                   |                   |                                               |                              |                   |                          |          |                        |

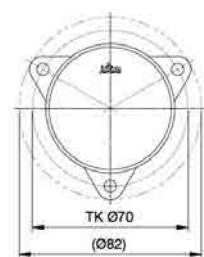
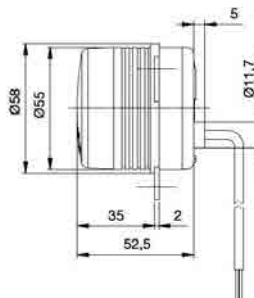
## Zubehör / Ersatzteile \* Accessories / Spare parts

|                                                                                    |                                     |                                                      |                                        |      |          |                                   |                                  |         |                    |   |           |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------|----------------------------------------|------|----------|-----------------------------------|----------------------------------|---------|--------------------|---|-----------|
|  | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>25 mA (I=const.) | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------|----------------------------------------|------|----------|-----------------------------------|----------------------------------|---------|--------------------|---|-----------|

## LED-LEUCHTEN-SYSTEM L 55 \* LED LIGHTING SYSTEM L 55

Die L 55 wurde speziell entwickelt für Einsatzfälle, bei denen nur ein limitierter Bauraum am Fahrzeug zur Verfügung steht. Eingesetzt werden modernste HighPower-LEDs, speziell die Blinkleuchte ist mit der sog. „Phosphor converted amber“ LED ausgestattet, die auch bei sehr hohen Temperaturen fast die volle Lichtintensität beibehält. Diese Blinkleuchte eignet sich auch hervorragend dazu, bauähnliche marktübliche Glühlampen-Leuchten zu ersetzen.

The L 55 was especially designed for such applications, which provide only limited installation space. The latest High Power LEDs are used, especially the DI has a „phosphor converted amber“ LED, which even at high temperatures nearly has the full luminous intensity. This DI light is suitable for the substitution of structurally identical lights with bulbs.



- Einbau-Montage
- Einzelader-Abdichtung für optimale Wasserdichtigkeit
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Blinker: mit LDC (LED-Defect-Contr.); kombinierb. mit LK 100-1-X

- flush mounting
- single wire insulation for perfect water tightness
- incl. non visible membrane for thermodynamic balance
- DI function: with LDC (LED-Defect-Control); combination with LK 100-1-X possible

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                                 | Merkmale<br>Features                                                                                                                                                                                                                                  | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-------------------------------------------------------------------------------------|------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|------------------------|
|  | <b>13.1045.000</b><br>BL 55/9-32 w | LED-Blinkleuchte / Kat. 1 / 1a<br>Side LED-DI / Cat. 1 / 1a | <div> <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> <div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> </div> | 9-32 V            | 4 W               | PC<br>klar - clear                    | Kabel 500 mm<br>cable 500 mm | 0,08 kg           | -20 / +70°C<br>IP 67     | 25       | E13-12095<br>EMV / EMC |

## Zubehör / Ersatzteile \* Accessories / Spare parts

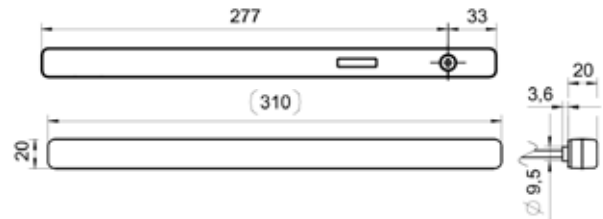
|                                                                                     |                                     |                                                      |                                        |      |          |                                   |                                  |         |                    |   |           |
|-------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------|----------------------------------------|------|----------|-----------------------------------|----------------------------------|---------|--------------------|---|-----------|
|  | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>35 mA (I=const.) | 12 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |
|                                                                                     | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>20 mA (I=const.) | 24 V | 2 x 21 W | Aluminium / PU<br>schwarz - black | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg | -20/+50°C<br>IP 67 | 1 | EMV / EMC |

## LED-ZUSATZBREMSLEUCHTEN ZHBL 40S / ZHBL 40L \* LED HIGH LEVEL STOP LIGHT ZHBL 40S / ZHBL 40L

Innovative LED-Zusatzbremsleuchten mit homogener Lichtaustrittsfläche über die gesamte Leuchtenbreite in zwei Baugrößen und 12 V oder 24 V Ausführungen.  
Innovative LED high level stop lights (chmsl) with homogeneous light emission surface over the entire light width in two construction sizes and 12 V or 24 V versions.



ZHBL 40S



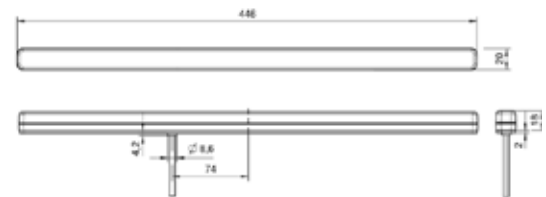
- Sehr kompaktes und attraktives Design
- Installation rückseitig mit Automotive -3M Klebeband
- Aufbau oder (vertiefter) Einbau

- compact and attractive design
- installation from rear with automotive 3M self-adhesive tape
- designed for surface or (deepened) flush mounting

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description               | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection        | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------------|-------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|--------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>15.0029.000</b><br>ZHBL 40S/12V | LED-Zusatzbremsleuchte<br>LED Chmsl Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 3 W               | PMMA / ABS                            | Kabel 200 mm<br>cable 200 mm   |                   | -20/+50°C<br>IP 67       |          | E1-5206              |
|                 | <b>15.0029.010</b><br>ZHBL 40S/12V | LED-Zusatzbremsleuchte<br>LED Chmsl Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 3 W               | PMMA / ABS                            | Kabel 4000 mm<br>cable 4000 mm |                   | -20/+50°C<br>IP 67       |          | E1-5206              |
|                 | <b>15.0030.000</b><br>ZHBL 40S/24V | LED-Zusatzbremsleuchte<br>LED Chmsl Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 3 W               | PMMA / ABS                            | Kabel 200 mm<br>cable 200 mm   |                   | 20/+50°C<br>IP 67        |          |                      |



ZHBL 40L

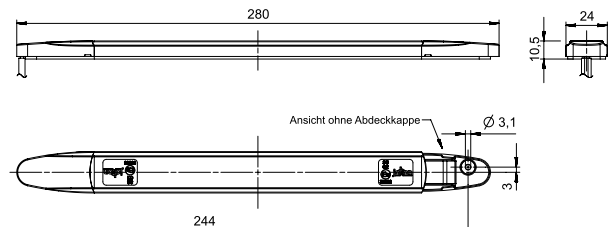
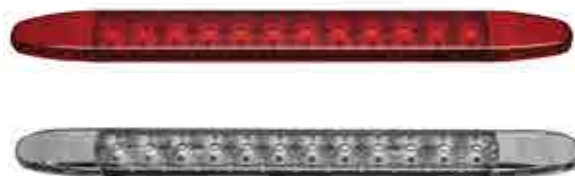


Designentwurf, Änderungen vorbehalten, weitere Informationen auf Anfrage  
Design draft, changes reserved, further information on request

|  |                                    |                                           |                                                |      |     |            |                              |  |                    |  |  |
|--|------------------------------------|-------------------------------------------|------------------------------------------------|------|-----|------------|------------------------------|--|--------------------|--|--|
|  | <b>15.0031.000</b><br>ZHBL 40L/12V | LED-Zusatzbremsleuchte<br>LED Chmsl Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V | 3 W | PMMA / ABS | Kabel 200 mm<br>cable 200 mm |  | -20/+50°C<br>IP 67 |  |  |
|  | <b>15.0032.000</b><br>ZHBL 40L/24V | LED-Zusatzbremsleuchte<br>LED Chmsl Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V | 3 W | PMMA / ABS | Kabel 200 mm<br>cable 200 mm |  | -20/+50°C<br>IP 67 |  |  |

## LED-ZUSATZBREMSLEUCHE ZHBL 28 \* LED HIGH LEVEL STOP LIGHT ZHBL 28

Die Zusatzbremsleuchten der Serie 28 mit SMT-LEDs sind anschlussfertig, wasserdicht vergossen und verfügen über ein Anschlusskabel von 500 mm.  
LED high level stop lights type 28 with SMT-LEDs are ready for plug-in, they are sealed in a waterproof manner and are equipped with a connecting cable of 500 mm.



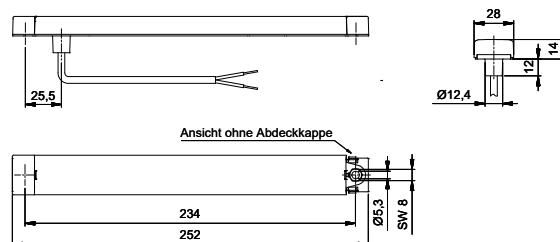
- Durch Abdeckkappen verdeckte Schraublöcher
- Geringe Bauhöhe

- screw holes covered by cover caps
- low profile

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                         | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-----------------------------------|-----------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>15.0028.000</b><br>ZHBL 28/12V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 1 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm | 0,06 kg           | -20/+50°C<br>IP 67       | 30       | S3 E13-0235398       |
|                 | <b>15.0028.300</b><br>ZHBL 28/12V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 1 W               | PMMA / ABS<br>klar - clear            | Kabel 500 mm<br>cable 500 mm | 0,06 kg           | -20/+50°C<br>IP 67       | 30       | S3 E13-0235398       |

## LED-ZUSATZBREMSLEUCHTEN ZHBL 250 \* LED HIGH LEVEL STOP LIGHT ZHBL 250

Die ZHBL 250 ist eine kompakte LED-Leuchte mit der sich durch die 360°-Anbaumöglichkeit sehr markante und individuelle Fahrzeug-Hecks gestalten lassen.  
 The LED high level stop light type 250 are compact and can be used to create very distinctive and individual vehicle rear ends thanks to its 360° mounting option.



- In beliebigem Winkel (360°/X-Achse) montierbar
- Inkl. seittl. Kappen (je nach Vers. verchromt od. wie Lichtscheibe)
- Installation rückseitig (M5-Schraube) oder von vorne
- Aufbau-Montage sowie vertiefter Einbau
- Einzelader-Abdichtung für optimale Wasserdichtigkeit
- Inkl. verdeckter Membran für thermodynamischen Ausgleich

- can be mounted in any angle (360°/X-axis)
- incl. lateral covers (chrome-plated or like lens dep. on version)
- installation either from the back (M5 screw) or from the front
- surface mounting or flush mounting
- single wire insulation for perfect water tightness
- incl. non visible membrane for thermodynamic balance

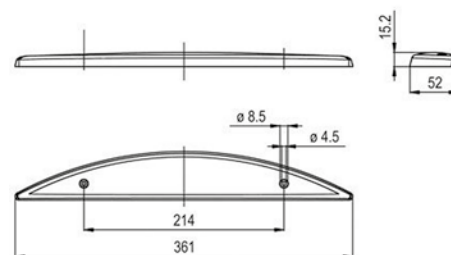
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type          | Beschreibung<br>Description                         | Merkmale<br>Features                                                                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour            | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------|---------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------|-------------------|--------------------------------------------------|------------------------------|-------------------|--------------------------|----------|------------------------|
|                 | <b>15.0018.100</b><br>ZHBL 250b/9-32V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>•</div> <div>BL BR S W SN R K SM</div> <div>DI ST TL RV FL RR NP SM</div> </div> | 9-32 V<br>DC      | 1 W               | PC/ABS-PC; rot / red<br>Kappe / cover: rot / red | Kabel 500 mm<br>cable 500 mm | 0,09 kg           | IP 67                    | 15       | E13-13365<br>EMV / EMC |

Zusatz-Information:  
Additional Information:

mit „D-Zulassung“, d.h. es können auch 2 Leuchten kombiniert werden.  
 with „D Approval“, i.e. also 2 lights can be combined.

## LED-ZUSATZBREMSLEUCHTE ZHBL 25 \* LED HIGH LEVEL STOP LIGHT ZHBL 25

Die Zusatzbremsleuchten der Serie 25 sind anschlussfertig, wasserdicht vergossen und verfügen über ein Anschlusskabel von 250 mm.  
 LED high level stop lights type 25 are ready for plug-in, they are sealed in a waterproof manner and are equipped with a connecting cable of 250 mm.



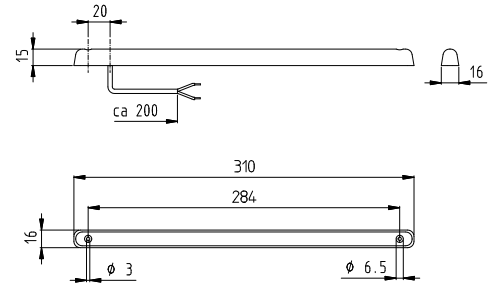
- 12 V und 24 V Versionen verfügbar
- Geringe Bauhöhe
- Durch Abdeckkappen verdeckte Schraublöcher

- 12 V and 24 V types available
- low profile
- screw holes covered by cover caps

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                         | Merkmale<br>Features                                                                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-----------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>15.0025.002</b><br>ZHBL 25/12V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>•</div> <div>BL BR S W SN R K SM</div> <div>DI ST TL RV FL RR NP SM</div> </div> | 12 V              | 1,6 W             | PMMA / ABS<br>rot - red               | Kabel 250 mm<br>cable 250 mm | 0,11 kg           | IP 67                    | 10       | S3 E2-<br>0205026    |
|                 | <b>15.0025.502</b><br>ZHBL 25/24V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>•</div> <div>BL BR S W SN R K SM</div> <div>DI ST TL RV FL RR NP SM</div> </div> | 24 V              | 2,0 W             | PMMA / ABS<br>rot - red               | Kabel 250 mm<br>cable 250 mm | 0,11 kg           | IP 67                    | 10       | S3 E2-<br>0205026    |
|                 | <b>15.0025.202</b><br>ZHBL 25/12V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>•</div> <div>BL BR S W SN R K SM</div> <div>DI ST TL RV FL RR NP SM</div> </div> | 12 V              | 1,6 W             | PMMA / ABS<br>klar - clear            | Kabel 250 mm<br>cable 250 mm | 0,11 kg           | IP 67                    | 10       | S3 E2-<br>0205026    |
|                 | <b>15.0025.702</b><br>ZHBL 25/24V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>•</div> <div>BL BR S W SN R K SM</div> <div>DI ST TL RV FL RR NP SM</div> </div> | 24 V              | 2,0 W             | PMMA / ABS<br>klar - clear            | Kabel 250 mm<br>cable 250 mm | 0,11 kg           | IP 67                    | 10       | S3 E2-<br>0205026    |

## LED-ZUSATZBREMSLEUCHTE ZHBL 24-2 \* LED HIGH LEVEL STOP LIGHT ZHBL 24-2

Die Zusatzbremsleuchten der Serie 24-2 sind anschlussfertig, wasserdicht vergossen und verfügen über ein Anschlusskabel von 250 mm.  
 LED high level stop lights type 24-2 are ready for plug-in, they are sealed in a waterproof manner and are equipped with a connecting cable of 250 mm.



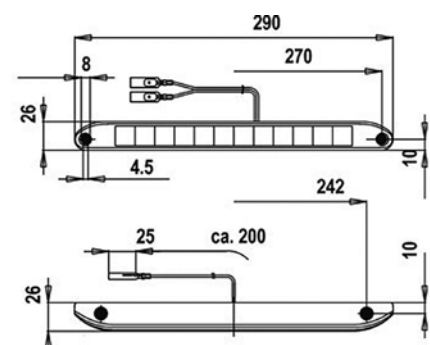
| Bild<br>Picture |  | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                         | Merkmale<br>Features                                                                                                                                     | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|--|-------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 |  | <b>15.0024.502</b><br>ZHBL 24-2/12V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | 2,7 W             | PMMA<br>rot - red                     | Kabel 250 mm<br>cable 250 mm | 0,07 kg           | IP 67                    | 10       | S3 E2-0204024        |
|                 |  | <b>15.0024.602</b><br>ZHBL 24-2/24V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 24 V              | 5,3 W             | PMMA<br>rot - red                     | Kabel 250 mm<br>cable 250 mm | 0,07 kg           | IP 67                    | 10       | S3 E2-0204024        |
|                 |  | <b>15.0024.702</b><br>ZHBL 24-2/12V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | 2,7 W             | PMMA<br>klar - clear                  | Kabel 250 mm<br>cable 250 mm | 0,07 kg           | IP 67                    | 10       | S3 E2-0204024        |
|                 |  | <b>15.0024.802</b><br>ZHBL 24-2/24V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 24 V              | 5,3 W             | PMMA<br>klar - clear                  | Kabel 250 mm<br>cable 250 mm | 0,07 kg           | IP 67                    | 10       | S3 E2-0204024        |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|                    |                    |                 |                                   |
|--------------------|--------------------|-----------------|-----------------------------------|
| <b>G2.0038.000</b> | Dichtung<br>Gasket | ZHBL 24-2 / 2mm | Kautschuk / rubber<br>grau - grey |
|--------------------|--------------------|-----------------|-----------------------------------|

## LED-ZUSATZBREMSLEUCHTE ZHBL 20 \* LED HIGH LEVEL STOP LIGHT ZHBL 20

Die Zusatzbremsleuchten der Serie 20 mit SMT-LEDs sind anschlussfertig, wasserdicht vergossen und verfügen über ein Anschlusskabel von 200 mm. Montage von vorne (Ein- oder Aufbau) oder von oben (Aufbau) möglich. Die nicht benutzten Schraublöcher werden durch Abdeckkappen verdeckt.  
 LED high level stop lights type 20 with SMT-LEDs are ready for plug-in, they are sealed in a waterproof manner and are equipped with a connecting cable of 200 mm. Mounting possible from the front (flush-fitting or surface-mounting) or from above (surface-mounting). The unused screw holes are covered by cover caps.



| Bild<br>Picture |  | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                         | Merkmale<br>Features                                                                                                                                     | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection       | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|--|-----------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------------|-------------------|--------------------------|----------|----------------------|
|                 |  | <b>15.0020.002</b><br>ZHBL 20/12V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | 1 W               | PMMA / ABS<br>rot - red               | Kabel 200 mm<br>cable 200 mm  | 0,13 kg           | IP 67                    | 20       | S3 E13-35219         |
|                 |  | <b>15.0021.012</b><br>ZHBL 20/24V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 24 V              | 1 W               | PMMA / ABS<br>rot - red               | Kabel 2000 mm<br>cable 2000mm | 0,13 kg           | IP 67                    | 20       | S3 E13-0235219       |

Zusatz-Information:  
Additional Information:

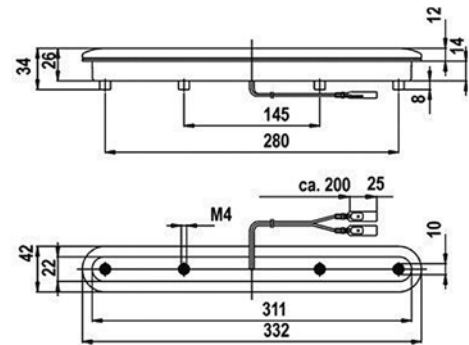
Gehäuse weiß, Flachsteckungen  
white housing, blade terminals



## LED-ZUSATZBREMSLEUCHTE ZHBL 05/06 \* LED HIGH LEVEL STOP LIGHT ZHBL 05/06

Die Zusatzbremsleuchten der Serie 05/06 mit SMT-LEDs sind anschlussfertig, wasserdicht vergossen, verfügen über ein Anschlusskabel von 200 mm und sind für den Einbau vorgesehen.

LED high level stop lights type 05/06 with SMT-LEDs are ready for plug-in, sealed in a waterproof manner and are equipped with a connecting cable of 200 mm. They intended for flush-fitting.



- 12 V und 24 V Versionen verfügbar
- Durch Abdeckkappen verdeckte Schraublöcher

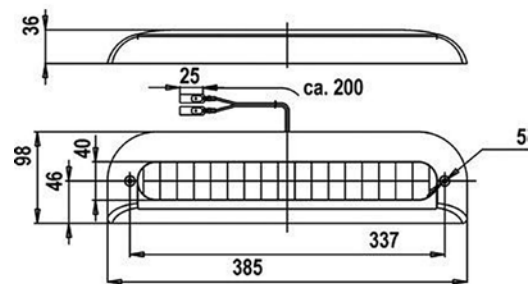
- 12 V and 24 V types available
- screw holes covered by cover caps

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                         | Merkmale<br>Features                                                                                                                                                                                                                                                                            | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |    |    |   |   |    |   |   |    |    |    |    |    |    |    |    |    |      |     |                         |                                |         |       |    |                |
|-----------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|----|----|---|---|----|---|---|----|----|----|----|----|----|----|----|----|------|-----|-------------------------|--------------------------------|---------|-------|----|----------------|
|  | <b>15.0005.002</b><br>ZHBL 05/12V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <table><tr><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>BL</td><td>BR</td><td>S</td><td>W</td><td>SN</td><td>R</td><td>K</td><td>SM</td></tr><tr><td>DI</td><td>ST</td><td>TL</td><td>RV</td><td>FL</td><td>RR</td><td>NP</td><td>SM</td></tr></table> | ●                 |                   |                                       |                         |                   |                          |          |                      | BL | BR | S | W | SN | R | K | SM | DI | ST | TL | RV | FL | RR | NP | SM | 12 V | 1 W | PMMA / ABS<br>rot - red | Kabel 200 mm<br>cable 200 mm   | 0,18 kg | IP 67 | 20 | S3 E13-0235218 |
|                                                                                   | ●                                 |                                                     |                                                                                                                                                                                                                                                                                                 |                   |                   |                                       |                         |                   |                          |          |                      |    |    |   |   |    |   |   |    |    |    |    |    |    |    |    |    |      |     |                         |                                |         |       |    |                |
| BL                                                                                | BR                                | S                                                   | W                                                                                                                                                                                                                                                                                               | SN                | R                 | K                                     | SM                      |                   |                          |          |                      |    |    |   |   |    |   |   |    |    |    |    |    |    |    |    |    |      |     |                         |                                |         |       |    |                |
| DI                                                                                | ST                                | TL                                                  | RV                                                                                                                                                                                                                                                                                              | FL                | RR                | NP                                    | SM                      |                   |                          |          |                      |    |    |   |   |    |   |   |    |    |    |    |    |    |    |    |    |      |     |                         |                                |         |       |    |                |
|                                                                                   | <b>15.0006.012</b><br>ZHBL 06/24V | LED-Zusatzbremsleuchte<br>LED High Level Stop Light | <table><tr><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>BL</td><td>BR</td><td>S</td><td>W</td><td>SN</td><td>R</td><td>K</td><td>SM</td></tr><tr><td>DI</td><td>ST</td><td>TL</td><td>RV</td><td>FL</td><td>RR</td><td>NP</td><td>SM</td></tr></table> | ●                 |                   |                                       |                         |                   |                          |          |                      | BL | BR | S | W | SN | R | K | SM | DI | ST | TL | RV | FL | RR | NP | SM | 24 V | 1 W | PMMA / ABS<br>rot - red | Kabel 2000 mm<br>cable 2000 mm | 0,18 kg | IP 67 | 20 | S3 E13-0235218 |
| ●                                                                                 |                                   |                                                     |                                                                                                                                                                                                                                                                                                 |                   |                   |                                       |                         |                   |                          |          |                      |    |    |   |   |    |   |   |    |    |    |    |    |    |    |    |    |      |     |                         |                                |         |       |    |                |
| BL                                                                                | BR                                | S                                                   | W                                                                                                                                                                                                                                                                                               | SN                | R                 | K                                     | SM                      |                   |                          |          |                      |    |    |   |   |    |   |   |    |    |    |    |    |    |    |    |    |      |     |                         |                                |         |       |    |                |
| DI                                                                                | ST                                | TL                                                  | RV                                                                                                                                                                                                                                                                                              | FL                | RR                | NP                                    | SM                      |                   |                          |          |                      |    |    |   |   |    |   |   |    |    |    |    |    |    |    |    |    |      |     |                         |                                |         |       |    |                |
| Zusatz-Information:<br>Additional Information:                                    |                                   |                                                     | Flachsteckungen<br>blade terminals                                                                                                                                                                                                                                                              |                   |                   |                                       |                         |                   |                          |          |                      |    |    |   |   |    |   |   |    |    |    |    |    |    |    |    |    |      |     |                         |                                |         |       |    |                |

Zusatz-Information:  
Additional Information:

Flachsteckungen  
blade terminals

## LED-ZUSATZBREMSLEUCHTE ZHBL 03 \* LED HIGH LEVEL STOP LIGHT ZHBL 03



- Aufbau-Montage mit Schraubbefestigung
- 32 Leuchtdioden
- Rahmen weiß

- surface mounting with screws
- 32 LED's
- white frame

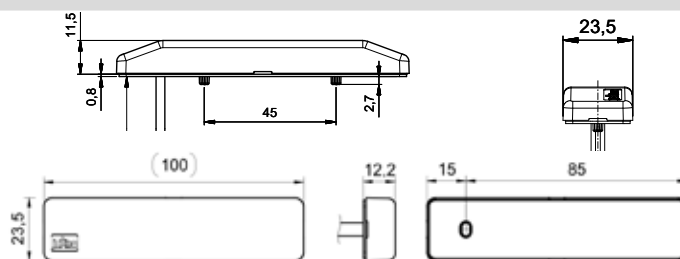
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                                | Merkmale<br>Features                                                                                                                                                                                                     | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |    |    |    |    |    |    |    |    |      |       |                                    |                              |         |       |    |          |
|-------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|----|----|----|----|----|----|----|----|------|-------|------------------------------------|------------------------------|---------|-------|----|----------|
|  | <b>15.0003.060</b><br>ZHBL 03/12V | LED-Zusatzbremsleuchte<br><i>LED High Level Stop Light</i> | <table border="1"><tr><td>BL</td><td>BR</td><td>S</td><td>W</td><td>SN</td><td>R</td><td>K</td><td>SM</td></tr><tr><td>DI</td><td>ST</td><td>TL</td><td>RV</td><td>FL</td><td>RR</td><td>NP</td><td>SM</td></tr></table> | BL                | BR                | S                                     | W                       | SN                | R                        | K        | SM                   | DI | ST | TL | RV | FL | RR | NP | SM | 12 V | 4,5 W | PMMA / ABS<br>rot-weiß - red-white | Kabel 200 mm<br>cable 200 mm | 0,33 kg | IP 67 | 30 | E1-02818 |
| BL                                                                                  | BR                                | S                                                          | W                                                                                                                                                                                                                        | SN                | R                 | K                                     | SM                      |                   |                          |          |                      |    |    |    |    |    |    |    |    |      |       |                                    |                              |         |       |    |          |
| DI                                                                                  | ST                                | TL                                                         | RV                                                                                                                                                                                                                       | FL                | RR                | NP                                    | SM                      |                   |                          |          |                      |    |    |    |    |    |    |    |    |      |       |                                    |                              |         |       |    |          |

Zusatz-Information:  
Additional Information:

Gehäuse weiß, Flachsteckungen  
white housing, blade terminals

## LED-SCHLUSS- / UMRISSELEUCHTE S 2019 \* LED TAIL/ END OUTLINE MARKER LIGHT S 2019

LED-Schlussleuchte (9-32 V) mit 3 LEDs in sehr flacher Bauweise, Klebefestigung.  
LED tail light (9-32 V) with 3 LEDs in a very flat design, adhesive fastening.



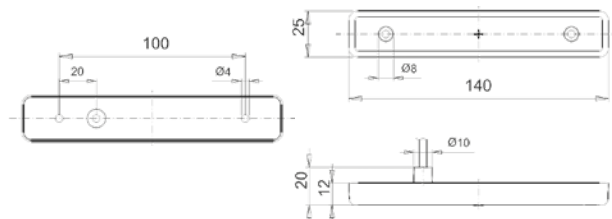
- Sehr kompaktes und attraktives Design
- Installation rückseitig mit Automotive -3M Klebeband
- Kann in beliebigem Winkel (360°/X-Achse) angebracht werden
- Aufbau oder (vertiefter) Einbau

- compact and attractive design
- installation from rear with automotive 3M self-adhesive tape
- can be mounted in any angle (360°/X-axis)
- designed for surface or (deepened) flush mounting

| Bild<br>Picture                                | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description          | Merkmale<br>Features                                                                                                                                                                                                                                  | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|------------------------------------------------|------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                                                | <b>13.0022.100</b><br>S 2019/9-32V | LED-Schlussleuchte<br>LED Tail Light | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 9-32V             | 1 W               | PMMA / ABS<br>rot - red               | Kabel 200mm<br>cable 200mm   | 0,03 kg           | -20 / +50°C<br>IP 6K9K   | 60       | E13-35378<br>EMV     |
| Zusatz-Information:<br>Additional Information: |                                    |                                      | Flachsteckungen<br>blade terminals                                                                                                                                                                                                                    |                   |                   |                                       |                              |                   |                          |          |                      |
|                                                | <b>13.0022.000</b><br>S 2019/9-32V | LED-Schlussleuchte<br>LED Tail Light | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 9-32V             | 1 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm | 0,03 kg           | -20 / +50°C<br>IP 6K9KIP | 60       | E13-35378<br>EMV     |
|                                                | <b>13.0024.100</b><br>S 2019-1/12V | LED-Schlussleuchte<br>LED Tail Light | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 9-32V             | 1 W               | PMMA / ABS<br>rot - red               | Kabel 250 mm<br>cable 250 mm | 0,03 kg           | -20 / +50°C<br>IP 6K9K   | 60       | E13-35378<br>EMV     |
| Zusatz-Information:<br>Additional Information: |                                    |                                      | Flachsteckungen<br>blade terminals                                                                                                                                                                                                                    |                   |                   |                                       |                              |                   |                          |          |                      |
|                                                | <b>13.0024.000</b><br>S 2019-1/12V | LED-Schlussleuchte<br>LED Tail Light | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 9-32V             | 1 W               | PMMA / ABS<br>rot - red               | Kabel 500 mm<br>cable 500 mm | 0,03 kg           | -20 / +50°C<br>IP 6K9KIP | 60       | E13-35378<br>EMV     |

## LED-SCHLUSSLEUCHTE S 2013 \* LED TAIL LIGHT S 2013

LED-Schlussleuchte mit integriertem Rückstrahler mit 3 LEDs in flacher Bauweise.  
LED tail light with integrated reflex-reflector in a slim design.



- Aufbau vertikal oder horizontal

- surface mounting vertically or horizontally

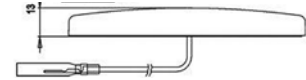
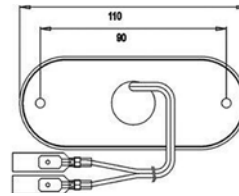
| Bild<br>Picture                                | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description          | Merkmale<br>Features                                                                                                                                                                                                                                  | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|------------------------------------------------|----------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                                                | <b>13.0016.000</b><br>S 2013/12V | LED-Schlussleuchte<br>LED Tail Light | <div> <div>BL</div> <div>BR</div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>SM</div> </div> <div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | 0,6 W             | PMMA / ABS<br>rot - red               | Kabel 250 mm<br>cable 250 mm | 0,05 kg           | -20 / +50°C<br>IP 67     | 75       | E1-3373              |
| Zusatz-Information:<br>Additional Information: |                                  |                                      | mit integriertem Rückstrahler und Flachsteckungen<br>with integrated reflex reflector and blade terminals                                                                                                                                             |                   |                   |                                       |                              |                   |                          |          |                      |

Weitere Schlussleuchten unter Leuchtensysteme  
Further tail lights in chapter light systems

## LED-SCHLUSSLEUCHTE SR 2002 \* LED TAIL LIGHT SR 2002

Schlussleuchten der Serie 2002 verfügen über einen integrierten Rückstrahler, sind in 12 V oder 24 V Ausführungen lieferbar und haben ein 100 mm Anschlusskabel mit montierten Flachsteckungen.

Series 2002 tail lights have an integrated reflector, are available in 12 V or 24 V versions and have a 100 mm connection cable fitted with flat tabs.



- SAE DOT bzw. FMVSS Zulassung für Nordamerika
- Aufbaumontage
- Wasserdicht vergossen und anschlussfertig

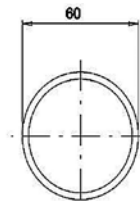
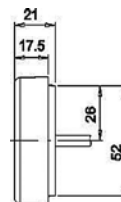
- SAE DOT / FMVSS approval for North America
- surface mounting
- sealed in a waterproof manner and ready for plug-in

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description                    | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|----------------------------------|------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>13.0050.100</b><br>SR 2002/12 | LED-Schlussleuchte<br>LED Tail Light           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 0,6 W             | PMMA / ABS<br>rot - red               | Kabel 100 mm<br>cable 100 mm | 0,04 kg           | IP 67                    | 100      | E2-2021<br>E2-0062   |
|                 | <b>13.0051.150</b><br>SR 2002/24 | LED-Schlussleuchte<br>LED Tail Light           | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 1,2 W             | PMMA / ABS<br>rot - red               | Kabel 165 mm<br>cable 165 mm | 0,04 kg           | IP 67                    | 100      | E2-2021<br>E2-0062   |
|                 |                                  | Zusatz-Information:<br>Additional Information: | Flachsteckungen<br>blade terminals             |                   |                   |                                       |                              |                   |                          |          |                      |

## LED-SCHLUSSLEUCHTE S 60 \* LED TAIL LIGHT S 60

Die Schlussleuchten der Serie 60 werden in 12 V oder 24 V Ausführungen angeboten und sind als Varianten mit und ohne Rückstrahler erhältlich.

Series 60 tail lights are offered in 12 V or 24 V versions and are available as variants with and without reflex-reflectors.



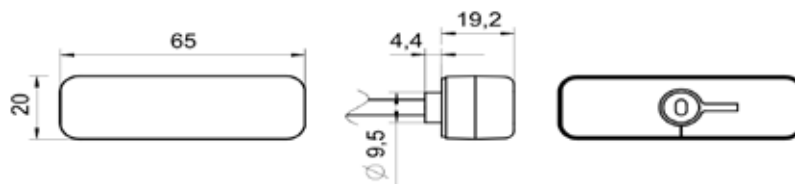
- Aufbaumontage
- Wasserdicht vergossen und anschlussfertig

- surface mounting
- sealed in a waterproofed manner and ready for plug-in

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description          | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|----------------------------------|--------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>13.0015.000</b><br>S 60b/12V  | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 1 W               | PMMA / ABS<br>rot - red               | Kabel 200 mm<br>cable 200 mm | 0,05 kg           | IP 67                    | 10       | E2-07077             |
|                 | <b>13.0015.500</b><br>S 60b/24V  | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 1 W               | PMMA / ABS<br>rot - red               | Kabel 200 mm<br>cable 200 mm | 0,05 kg           | IP 67                    | 10       | E2-07077             |
|                 | <b>13.0056.000</b><br>SR 60b/12V | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 1 W               | PMMA / ABS<br>rot - red               | Kabel 200 mm<br>cable 200 mm | 0,05 kg           | IP 67                    | 20       | E2-07077             |
|                 | <b>13.0056.500</b><br>SR 60b/24V | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 24 V              | 1 W               | PMMA / ABS<br>rot - red               | Kabel 200 mm<br>cable 200 mm | 0,05 kg           | IP 67                    | 20       | E2-07077             |

## LED-LEUCHTEN-SYSTEM L 40 \* LED LIGHTING SYSTEM L 40

Innovative LED-Einzelfunktionsleuchten mit homogener Lichtaustrittsfläche in 12 V oder 24 V Ausführung.  
Innovative LED single function lights with homogeneous light emission surface in 12 V or 24 V version.



- Sehr kompaktes und attraktives Design
- Installation rückseitig mit Automotive -3M Klebeband
- Beliebige Winkel (360°/X-Achse) wählbar - außer ZHBL
- Aufbau oder (vertiefter) Einbau

- compact and attractive design
- installation from rear with automotive 3M self-adhesive tape
- can be mounted in any angle (360°/X-axis) - except ZHBL
- designed for surface or (deepened) flush mounting

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description          | Merkmale<br>Features                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection        | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|--------------------------------|--------------------------------------|---------------------------------------------|-------------------|-------------------|---------------------------------------|--------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.0059.000</b><br>S 40/12V | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 1 W               | PMMA / ABS                            | Kabel 250 mm<br>cable 250 mm   |                   | -20/+50°C<br>IP 67       |          | E1-5205              |
|  | <b>13.0059.010</b><br>S 40/12V | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 1 W               | PMMA / ABS                            | Kabel 5000 mm<br>cable 5000 mm |                   | -20/+50°C<br>IP 67       |          | E1-5205              |
|  | <b>13.0060.000</b><br>S 40/24V | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 1 W               | PMMA / ABS                            | Kabel 250 mm<br>cable 250 mm   |                   | -20/+50°C<br>IP 67       |          |                      |

## LED-BRIDGELIGHT S 50 \* LED BRIDGELIGHT S 50

Die innovative Konstruktion der L 50 Bridgelight erlaubt neben der Standardausführung, auf Kundenwunsch abgestimmte Abmessungen. Die homogen ausgeführte „leuchtende Fläche“ in Verbindung mit der variabel montierbaren Mehrfunktionsleuchte L 3600 gibt der rückwärtigen Ansicht IHRES Fahrzeuges einen unverwechselbaren Ausdruck. Sie stellt eine perfekte Ergänzung zum Trendsetter L 3600 dar (siehe Seite 30/31). L 50 Bridgelight kann auch mit anderen Leuchten oder auch als Einzeleinheit eingesetzt werden.  
The innovative design of the L 50 Bridgelight allows customised dimensions in addition to the standard version. The homogeneously designed „luminous surface“ in combination with the variably mountable L 3600 multi-functional light gives the rear view of YOUR vehicle an unmistakable expression. It is a perfect extension to the trendsetter L 3600 (see page 30/31). Of course, L 50 Bridgelight can also be used with other lights or as a single unit.



Designentwurf, Änderungen vorbehalten,  
weitere Informationen auf Anfrage  
Design draft, changes reserved,  
further information on request

- Neben Standardausführung individuelle Längen möglich
- Homogenes Schlusslicht

- in addition to standard design, individual lengths possible
- homogeneous tail light

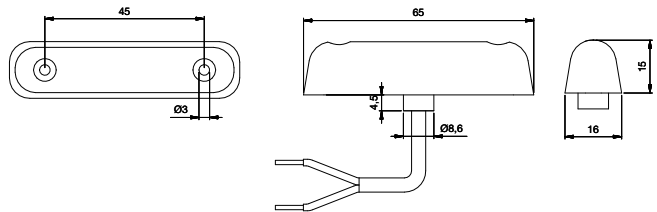
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description          | Merkmale<br>Features                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------------|--------------------------------------|---------------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.0061.000</b><br>S 50/12V     | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K PL<br>DI ST TL RV FL RR NP | 12 V              |                   |                                       |                         |                   | -20/+50°C<br>IP 67       |          |                      |
|  | auf Anfrage/on request<br>S 50/24V | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K PL<br>DI ST TL RV FL RR NP | 24 V              |                   |                                       |                         |                   | -20/+50°C<br>IP 67       |          |                      |



## LED-SCHLUSSLEUCHTE S 24-2 \* LED TAIL LIGHT S 24-2

Die Schlussleuchten der Serie 24-2 haben sehr kompakte Abmessungen. Sie sind für den horizontalen oder vertikalen Anbau zugelassen und werden in 12 V oder 24 V Ausführungen angeboten. Zusätzlich sind Varianten mit roter oder klarer (weißer) Lichtscheibe verfügbar.

The tail lights of the 24-2 series have very compact dimensions. They are approved for horizontal or vertical mounting and are offered in 12 V or 24 V versions. Additionally, variants with red or clear (white) lens are available.



- Aufbaumontage
- 4 Leuchtdioden
- Wasserdicht vergossen und anschlussfertig
- Zusätzliche Dichtung erhältlich

- surface mounting
- 4 LED's
- sealed in a waterproof manner and ready for plug-in
- additional gasket available

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description          | Merkmale<br>Features                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval |
|-----------------|------------------------------------|--------------------------------------|---------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|-------------|----------------------|
|                 | <b>13.0012.000</b><br>S 24-2/12V   | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 0,4 W             | PMMA<br>rot - red                     | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | IP 67                    | 10<br>E/180 | R E2-<br>0205019     |
|                 | <b>13.0013.000</b><br>S 24-2/24V   | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 0,4 W             | PMMA<br>rot - red                     | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | IP 67                    | 10<br>E/180 | R E2-<br>0205019     |
|                 | <b>13.0012.500</b><br>S 24-2/12V-w | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 0,4 W             | PMMA<br>klar - clear                  | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | IP 67                    | 10<br>E/180 | R E2-<br>0205019     |
|                 | <b>13.0013.500</b><br>S 24-2/24V-w | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 0,4 W             | PMMA<br>klar - clear                  | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | IP 67                    | 10<br>E/180 | R E2-<br>0205019     |

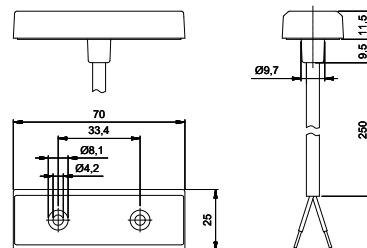
## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                    |                                            |                               |  |  |                                   |  |  |  |  |  |
|--|--------------------|--------------------------------------------|-------------------------------|--|--|-----------------------------------|--|--|--|--|--|
|  | <b>G2.0037.000</b> | Dichtung S + PL 24-2<br>Gasket S + PL 24-2 | 13.0012.../2mm<br>13.0013.... |  |  | Kautschuk / rubber<br>grau - grey |  |  |  |  |  |
|--|--------------------|--------------------------------------------|-------------------------------|--|--|-----------------------------------|--|--|--|--|--|

## LED-SCHLUSSLEUCHTE S 251 \* LED TAIL LIGHT S 251

Die L 251 ist als Schlussleuchte sehr flexibel einsetzbar: Sie kann horizontal oder vertikal auf bis zu 25° nach oben oder zur Seite geneigten Fahrzeug-Wänden montiert werden, ohne dass spezielle Adapter benötigt werden. Dadurch wird die Montagezeit erheblich reduziert. Sie ist einerseits kompakt, andererseits aber erfüllt sie mit einer leuchtenden Fläche von 12,5 cm² exakt die Mindestvorgaben an eine vollwertige Schlussleuchte.

The L 251 can be very flexibly installed as a tail light. The light can be mounted either horizontally or vertically on vehicle walls which have an inclination of up to 25°, either upwards or sideways. No special adapters are necessary, which reduces the mounting time significantly. The light is quite compact, but with a luminous area of 12.5 cm² it fulfills the minimum requirements for an adequate tail light.



- LED-Schlussleuchte (4 LED's)
- Aufbau-Montage (Schrauben 4mm)
- Bis 25° Neigung nach oben oder zur Seite montierbar

- LED tail light (4 LED's)
- surface mounting (screws 4mm)
- can be mounted with an inclination of 25° upwards or sideways

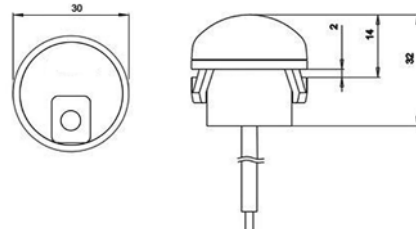
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type    | Beschreibung<br>Description          | Merkmale<br>Features                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|---------------------------------|--------------------------------------|---------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>13.0020.000</b><br>S 251/12V | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 1 W               | PC / ABS-PC<br>rot - red              | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13173            |
|                 | <b>13.0020.500</b><br>S 251/24V | LED-Schlussleuchte<br>LED Tail Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 1 W               | PC / ABS-PC<br>rot - red              | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13173            |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                    |                                  |                                                       |  |  |                 |  |  |  |  |  |
|--|--------------------|----------------------------------|-------------------------------------------------------|--|--|-----------------|--|--|--|--|--|
|  | <b>G2.0046.000</b> | Dichtung / 2 mm<br>Gasket / 2 mm | einseitig selbstklebend<br>unilaterally self-adhesive |  |  | schwarz - black |  |  |  |  |  |
|--|--------------------|----------------------------------|-------------------------------------------------------|--|--|-----------------|--|--|--|--|--|

## LED-SCHLUSSLEUCHTE S 30 \* LED TAIL LIGHT S 30

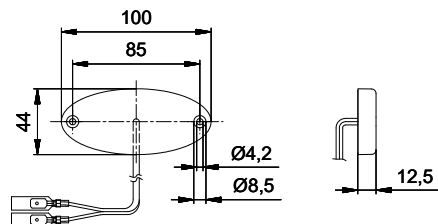
Die Schlussleuchten der Serie 30 sind für den 12 V oder 24 V Bereich (9-33 V) konzipiert und als Varianten mit roter oder farblos klarer (weißer) Lichtscheibe angeboten.  
 The tail lights type of the 30 series tail lights are designed for use in the 12 V or 24 V range (9-33 V) and are offered as variants with red or colorless clear (white) lenses.



| Bild<br>Picture |  | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description          | Merkmale<br>Features                                                                                                                                                   | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|--|-----------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|----------------------------------------|-------------------|--------------------------|----------|----------------------|
|                 |  | <b>13.0014.000</b><br>S 30b/9-33V | LED-Schlussleuchte<br>LED Tail Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 9 - 33 V          | 0,6 W             | PMMA / ABS<br>rot - red               | Kabel 250 mm<br>cable 250 mm           | 0,04 kg           | IP 67                    | 10       | E2-05036             |
|                 |  | <b>13.0014.500</b><br>S 30b/9-33V | LED-Schlussleuchte<br>LED Tail Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 9 - 33 V          | 0,6 W             | PMMA / ABS<br>klar - clear            | Kabel 250 mm<br>cable 250 mm           | 0,04 kg           | IP 67                    | 10       | E2-05036             |
|                 |  | <b>13.0014.905</b><br>S 30b/9-33V | LED-Schlussleuchte<br>LED Tail Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 9 - 33 V          | 0,6 W             | PMMA / ABS<br>klar - clear            | Flachkabel 500 mm<br>flat cable 500 mm | 0,04 kg           | IP 67                    | 10       | E2-05036             |
|                 |  |                                   |                                      |                                                                                                                                                                        |                   |                   |                                       |                                        |                   |                          |          |                      |

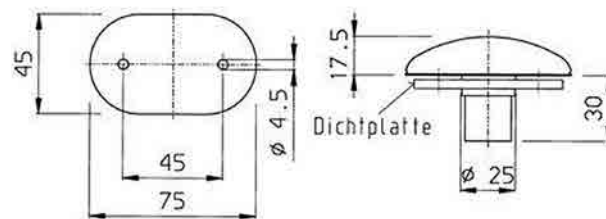
## LED-SCHLUSSLEUCHTE S 2012 \* LED TAIL LIGHT S 2012

Die Schlussleuchten der Serie 2012 werden in 12 V oder 24 V Ausführungen angeboten und verfügen über 200 mm Anschlusskabel mit montierten Flachsteckungen.  
 The 2012 series tail lights are offered in 12 V or 24 V versions and have 200 mm connection cable with mounted flat tabs.



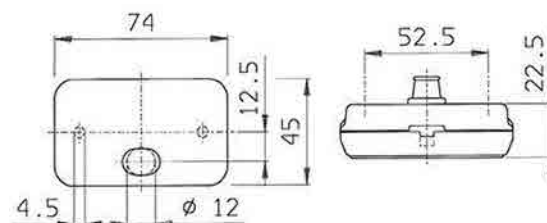
| Bild<br>Picture |  | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description          | Merkmale<br>Features                                                                                                                                                   | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|--|-----------------------------------|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 |  | <b>13.0018.000</b><br>S 2012b/12V | LED-Schlussleuchte<br>LED Tail Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | 1,0 W             | PMMA / ABS<br>rot - red               | Kabel 200 mm<br>cable 200 mm | 0,03 kg           | IP 67                    | 50       | E2-07071             |
|                 |  | <b>13.0018.500</b><br>S 2012b/24V | LED-Schlussleuchte<br>LED Tail Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 24 V              | 1,0 W             | PMMA / ABS<br>rot - red               | Kabel 200 mm<br>cable 200 mm | 0,03 kg           | IP 67                    | 50       | E2-07071             |

## SCHLUSSLEUCHTE S 2000 \* TAIL LIGHT S 2000



|                                                                                   |                              | · Glassockellampe montiert<br>· Einbau-Montage |                                                | · glass-base bulb fitted<br>· flush-fitting |                   |                                       |                                    |                   |                          |          |                      |
|-----------------------------------------------------------------------------------|------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                    | Merkmale<br>Features                           | Spann.<br>Voltage                           | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|  | <b>13.0011.000</b><br>S 2000 | Schlussleuchte<br>Tail Light                   | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V                                        | W 5 W             | PMMA / PC<br>rot - red                | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 20       | E1-02995             |

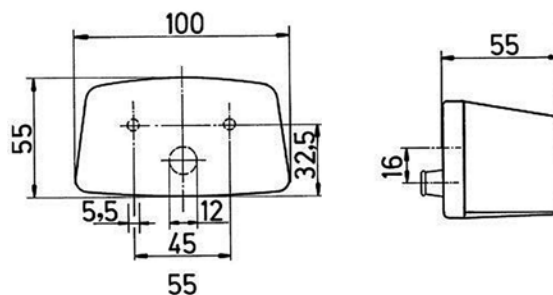
## SCHLUSSLEUCHTE S 130 \* TAIL LIGHT S 130



|                                                                                     |                              | · Aufbau-Montage<br>· Schlussleuchte oder Umrissleuchte<br>· Glühlampe in Soffittenform |                                                | · surface mounting<br>· tail Light or end-outline marker light<br>· festoon-type bulb |                   |                                       |                                    |                   |                          |          |                      |
|-------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                                                             | Merkmale<br>Features                           | Spann.<br>Voltage                                                                     | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|  | <b>13.0002.000</b><br>S 130  | Schlussleuchte<br>Tail Light                                                            | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V                                                                                  | C 5 W             | PMMA / PC<br>rot - red                | Flachsteckungen<br>blade terminals | 0,03 kg           |                          | 50       | E1-0231425           |

Zubehör / Ersatzteile \* Accessories / Spare parts

## SCHLUSSLEUCHTE SK 415 \* TAIL LIGHT SK 415



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                             | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval       |
|-------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|------------|----------------------------|
|  | <b>10.0001.100</b><br>SK 415 | Schluss-Kennzeichenleuchte<br>Tail / Number Plate Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | R 10 W            | PMMA / ABS<br>rot - red               | Flachsteckungen<br>blade terminals | 0,11 kg           |                          | 10<br>E/90 | E1-0131431*<br>E1-22838R4* |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                                |                                        |  |  |  |                   |  |         |  |           |                            |
|--|--------------------------------|----------------------------------------|--|--|--|-------------------|--|---------|--|-----------|----------------------------|
|  | <b>19.0001.100</b><br>E/SK 415 | Ersatzlichtscheibe<br>Replacement Lens |  |  |  | PMMA<br>rot - red |  | 0,04 kg |  | 10<br>E/5 | E1-0131431*<br>E1-22838R4* |
|--|--------------------------------|----------------------------------------|--|--|--|-------------------|--|---------|--|-----------|----------------------------|

KENNZEICHEN-, NEBELSCHLUSSLEUCHTEN, RÜCKFAHRSCHEINWERFER  
NUMBER PLATE LIGHTS, FOG LIGHTS, REVERSING LIGHTS

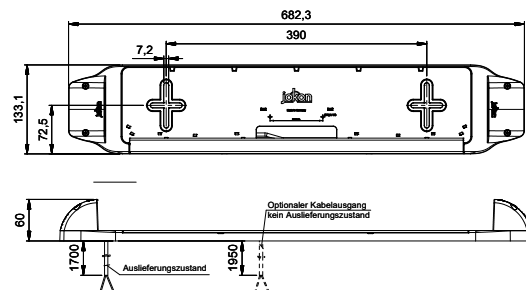




## LED-KENNZEICHENHALTER KH 590b \* LED NUMBER PLATE HOLDER 590b

Der Kennzeichenhalter verfügt über zwei integrierte LED-Kennzeichenleuchten, welche über ein Anschlusskabel (vorverkabelt) angeschlossen werden. Eine individualisierbare Klemmleiste erlaubt eine kundenspezifische Beschriftung/Werbung. Der Kennzeichenhalter ist für Kennzeichen mit den Abmessungen 520 x 120 mm verwendbar. Auch die für Frankreich geforderte Befestigung durch Nieten ist vorgesehen.

The license-plate holder has two integrated LED license plate lights, which are connected via cable (pre-wired). A customizable terminal strip allows a customer-specific inscription/advertising. The license-plate holder can be used for license plates with the dimensions 520 x 120 mm. The fastening by rivets required for France is also provided.



- Ingeriertes Y-Kabel (variabel 1700 - 1950 mm)
- Klemmleiste kundenspezifisch individualisierbar
- Sehr kompaktes und attraktives Design
- Aufbau oder (vertiefter) Einbau

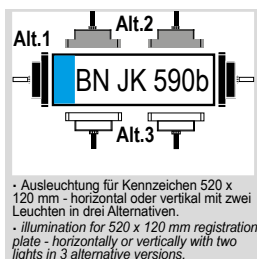
- integrated Y-cable (variable 1700 - 1950 mm)
- customizable clamping element
- compact and attractive design
- designed for surface or (recessed) flush mounting

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                      | Merkmale<br>Features                     | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------|-------------------------------------|--------------------------------------------------|------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|------------------------|
|                 | <b>13.4018.100</b><br>KH 590b/9-32V | LED-Kennzeichenhalter<br>LED-Number plate holder | Leuchten integriert<br>integrated lights | 9-32 V            | 1 + 1 W           | ABS / PC+PC<br>schwarz / black        | Y-Kabel 2000 mm<br>y-cable 2000 mm | 0,5 kg            | -20 / +50°C<br>IP 6K9K   | 20       | E13-12343<br>EMV / EMC |

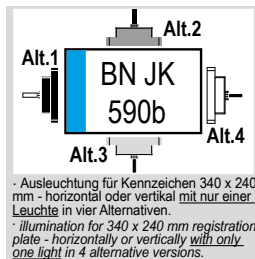
## LED-KENNZEICHENLEUCHTE K 590b \* LED NUMBER PLATE LIGHT K 590b

LED-Kennzeichenleuchte mit 200 mm Anschlusskabel für die Aufbau-Montage, variable Anbaupositionen.

LED-license plate light with 200 mm connection cable for surface-mounting, variable mounting positions.



- Ausleuchtung für Kennzeichen 520 x 120 mm - horizontal oder vertikal mit zwei Leuchten in drei Alternativen.
- illumination for 520 x 120 mm registration plate - horizontally or vertically with two lights in 3 alternative versions.



- Ausleuchtung für Kennzeichen 340 x 240 mm - horizontal oder vertikal mit nur einer Leuchte in vier Alternativen.
- illumination for 340 x 240 mm registration plate - horizontally or vertically with only one light in 4 alternative versions.



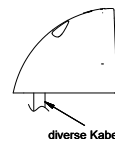
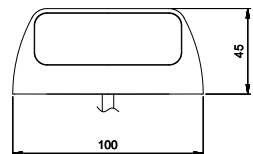
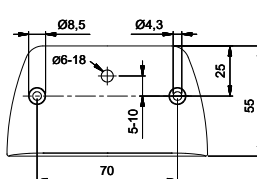
- Hochwertige LEDs von Marken-Herstellern (NICHIA).
- high quality LED's from branded manufacturers (NICHIA).



- Einzeldraderabdichtung für maximalen IP-Schutz und Funktionssicherheit.
- single conductor seal for maximum IP protection and functional safety.



- gleichmäßige Ausleuchtung und homogenes Farbbild.
- even illumination and more uniform colour.



diverse Kabel

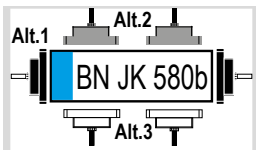
- Aufbau-Montage
- Wasserdicht vergossen

- surface mounting
- waterproof sealed

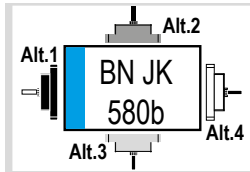
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                      | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                  | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------|------------------------------------|--------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------------|-------------------|--------------------------|----------|------------------------|
|                 | <b>13.4016.000</b><br>K 590b/9-32V | LED-Kennzeichenleuchte<br>LED Number Plate Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 9-32 V            | 1 W               | PC / PC<br>schwarz - black            | Kabel 200 mm<br>cable 200 mm             | 0,07 kg           | IP 6K9K                  | 50       | E13-12343<br>EMV / EMC |
|                 | <b>13.4016.100</b><br>K 590b/9-32V | LED-Kennzeichenleuchte<br>LED Number Plate Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 9-32 V            | 1 W               | PC / PC<br>schwarz - black            | Kabel 1000 mm<br>cable 1000 mm           | 0,09 kg           | IP 6K9K                  | 50       | E13-12343<br>EMV / EMC |
|                 | <b>13.4016.500</b><br>K 590b/9-32V | LED-Kennzeichenleuchte<br>LED Number Plate Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 9-32 V            | 1 W               | PC / PC<br>schwarz - black            | Flachkabel 500 mm<br>flat cable 500 mm   | 0,09 kg           | IP 6K9K                  | 50       | E13-12343<br>EMV / EMC |
|                 | <b>13.4016.600</b><br>K 590b/9-32V | LED-Kennzeichenleuchte<br>LED Number Plate Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 9-32 V            | 1 W               | PC / PC<br>schwarz - black            | Flachkabel 1000 mm<br>flat cable 1000 mm | 0,12 kg           | IP 6K9K                  | 50       | E13-12343<br>EMV / EMC |

## LED-KENNZEICHENLEUCHTE K 580b \* LED NUMBER PLATE LIGHT K 580b

LED-Kennzeichenleuchte mit 200 mm Anschlusskabel für die Einbau-Montage, variable Anbaupositionen.  
LED-license plate light with 200 mm connection cable for flush-fitting, variable mounting positions.



· Ausleuchtung für Kennzeichen 520 x 120 mm - horizontal oder vertikal mit zwei Leuchten in drei Alternativen.  
· illumination for 520 x 120 mm registration plate - horizontally or vertically with two lights in 3 alternative versions.



· Ausleuchtung für Kennzeichen 340 x 240 mm - horizontal oder vertikal mit nur einer Leuchte in vier Alternativen.  
· illumination for 340 x 240 mm registration plate - horizontally or vertically with only one light in 4 alternative versions.



· Hochwertige LEDs von Marken-Herstellern (NICHIA).  
· high quality LED's from branded manufacturers (NICHIA).

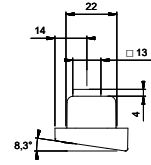
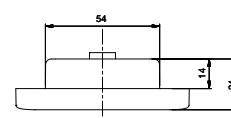
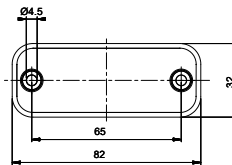


· Einzeleraderabdichtung für maximalen IP-Schutz und Funktionssicherheit.  
· single conductor seal for maximum IP protection and functional safety.



· Gleichmäßige Ausleuchtung und homogenes Farbbild.  
· even illumination and more uniform colour.

## Technische Daten \* Technical Data



- Einbau-Montage
- Wasserdicht vergossen

- flush fitting
- waterproof sealed

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                      | Merkmale<br>Features                                                                                                                                                                                                                                              | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval  |
|-----------------|------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|-----------------------|
|                 | <b>13.4015.000</b><br>K 580b/9-32V | LED-Kennzeichenleuchte<br>LED Number Plate Light | <div> <div>BL</div> <div>BR</div> <div>DL</div> <div>ST</div> </div> <div> <div>S</div> <div>TL</div> <div>RV</div> <div>FL</div> </div> <div> <div>W</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> <div> <div>R</div> <div>K</div> <div>PL</div> </div> | 9-32V             | 1 W               | PMMA / ABS<br>schwarz - black         | Kabel 200 mm<br>cable 200 mm | 0,03 kg           | IP 6K9K                  | 50       | E2-06020<br>EMV / EMC |

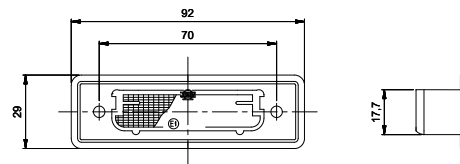
## LED-KENNZEICHENLEUCHTE K 575 \* LED NUMBER PLATE LIGHT K 575

Die sehr kompakte LED-Kennzeichenleuchte K 575 ermöglicht den „Plug and Play“ Austausch der Glühlampenleuchte K 570 bei gleichen Abmessungen. Ein hervorragendes Preis-/Leistungsverhältnis unterstützt die Aufrüstung zur LED-Technik.

The very compact K 575 LED number plate light allows „plug'n'play“ replacement of the K 570 bulb light with the same dimensions. An excellent price/performance ratio supports the upgrade to LED technology.



In Vorbereitung  
in preparation

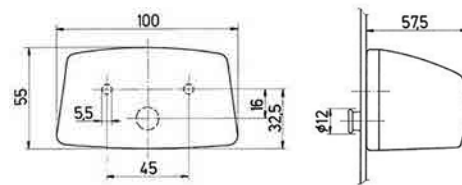


- Einbau-Montage
- Wasserdicht vergossen und anschlussfertig

- flush fitting
- sealed in a waterproofed manner and ready for plug-in

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type    | Beschreibung<br>Description                      | Merkmale<br>Features                                                                                                                                                                                                                                              | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|---------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>13.4019.000</b><br>K 575/12V | LED-Kennzeichenleuchte<br>LED Number Plate Light | <div> <div>BL</div> <div>BR</div> <div>DL</div> <div>ST</div> </div> <div> <div>S</div> <div>TL</div> <div>RV</div> <div>FL</div> </div> <div> <div>W</div> <div>RR</div> <div>NP</div> <div>PL</div> </div> <div> <div>R</div> <div>K</div> <div>PL</div> </div> | 12 V              |                   |                                       | Kabel 200 mm<br>cable 200 mm |                   | IP 67                    |          |                      |

## KENNZEICHENLEUCHTE K 415 \* NUMBER PLATE LIGHT K 415

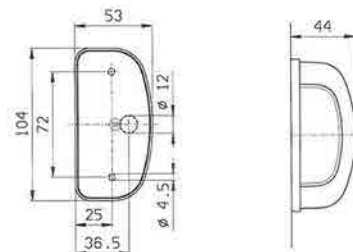


| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description              | Merkmale<br>Features                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|------------------------------|------------------------------------------|---------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|------------|----------------------|
|  | <b>13.4006.100</b><br>K 415  | Kennzeichenleuchte<br>Number Plate Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | R 10 W            | PMMA / ABS<br>schwarz - black         | Flachsteckungen<br>blade terminals | 0,08 kg           |                          | 10<br>E/90 | E1-22838             |

## Zubehör / Ersatzteile \* Accessories / Spare parts

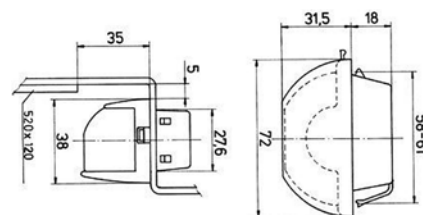
|  |                               |                                        |  |  |  |                         |  |         |  |            |          |
|--|-------------------------------|----------------------------------------|--|--|--|-------------------------|--|---------|--|------------|----------|
|  | <b>19.1032.100</b><br>E/K 415 | Ersatzlichtscheibe<br>Replacement Lens |  |  |  | PMMA<br>schwarz - black |  | 0,03 kg |  | 10<br>E/90 | E1-22838 |
|--|-------------------------------|----------------------------------------|--|--|--|-------------------------|--|---------|--|------------|----------|

## KENNZEICHENLEUCHTE K 158 \* NUMBER PLATE LIGHT K 158



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description                    | Merkmale<br>Features                                                   | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------|------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|------------|----------------------|
|  | <b>13.4002.100</b><br>K 158   | Kennzeichenleuchte<br>Number Plate Light       | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP                            | 12 V              | C 5 W             | PMMA / ABS<br>schwarz - black         | Flachsteckungen<br>blade terminals | 0,08 kg           |                          | 10<br>E/75 | E1-22813             |
|                                                                                     |                               | Zusatz-Information:<br>Additional Information: | Aufbau-Montage<br>surface mounting                                     |                   |                   |                                       |                                    |                   |                          |            |                      |
|  | <b>13.4002.110</b><br>K 158/1 | Kennzeichenleuchte<br>Number Plate Light       | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP                            | 12 V              | C 5 W             | PMMA / ABS<br>schwarz - black         | Flachsteckungen<br>blade terminals | 0,08 kg           |                          | 10<br>E/50 | E1-22813             |
|                                                                                     |                               | Zusatz-Information:<br>Additional Information: | Aufbau-Montage / mit Abstandssockel<br>surface mounting / with adaptor |                   |                   |                                       |                                    |                   |                          |            |                      |

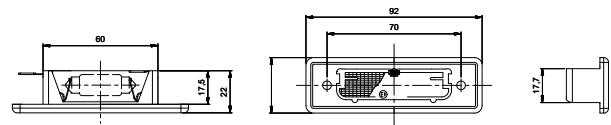
## KENNZEICHENLEUCHTE K 420 \* NUMBER PLATE LIGHT K 420



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description              | Merkmale<br>Features                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------|------------------------------------------|---------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|-------------|----------------------|
|  | <b>13.4007.101</b><br>K 420  | Kennzeichenleuchte<br>Number Plate Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | R 10 W            | PC / PC<br>schwarz - black            | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 40<br>E/180 | E1-22839             |

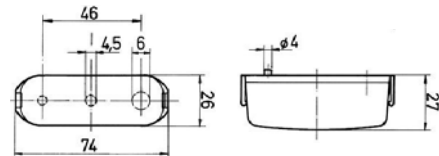
## KENNZEICHENLEUCHTE K 570 \* NUMBER PLATE LIGHT K 570

Sehr kompakte Kennzeichenleuchte für die Einbau-Montage.  
Very compact license plate light for flush-fitting.



| · Variable Anbaupositionen                                                        |                              |                                                        |                      |          |         |         |          |                   |                   | · variable mounting positions         |                         |                   |                          |                                    |                      |             |          |
|-----------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------|----------------------|----------|---------|---------|----------|-------------------|-------------------|---------------------------------------|-------------------------|-------------------|--------------------------|------------------------------------|----------------------|-------------|----------|
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                            | Merkmale<br>Features |          |         |         |          | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU                           | Homolog.<br>Approval |             |          |
|  | <b>13.4008.100</b><br>K 570  | Kennzeichenleuchte / links<br>Number Plate Light / LH  | BL<br>DI             | BR<br>ST | S<br>TL | W<br>RV | SN<br>FL | R<br>FR           | K<br>NP           | ●<br>SM                               | 12 - 24 V               | C 5 W             | PC<br>schwarz - black    | Flachsteckungen<br>blade terminals | 0,02 kg              | 50<br>E/180 | E1-22872 |
|                                                                                   | <b>13.4008.110</b><br>K 570  | Kennzeichenleuchte / rechts<br>Number Plate Light / RH | BL<br>DI             | BR<br>ST | S<br>TL | W<br>RV | SN<br>FL | R<br>FR           | K<br>NP           | ●<br>SM                               | 12 - 24 V               | C 5 W             | PC<br>schwarz - black    | Flachsteckungen<br>blade terminals | 0,02 kg              | 50<br>E/180 | E1-22872 |

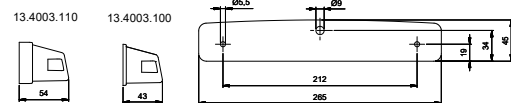
## KENNZEICHENLEUCHTE K 97 \* NUMBER PLATE LIGHT 97



| · Aufbau-Montage<br>· Glühlampe in Soffittenform                                    |                              |                                          |                                                                                                                                                                                                                                                             | · surface mounting<br>· festoon-type bulb |                   |                                       |                                     |                   |                          |                                |                      |
|-------------------------------------------------------------------------------------|------------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------|---------------------------------------|-------------------------------------|-------------------|--------------------------|--------------------------------|----------------------|
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description              | Merkmale<br>Features                                                                                                                                                                                                                                        | Spann.<br>Voltage                         | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection             | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU                       | Homolog.<br>Approval |
|  | <b>13.4001.101</b><br>K 97 s | Kennzeichenleuchte<br>Number Plate Light | <div><div>BL</div><div>BR</div><div>DI</div><div>ST</div></div> <div><div>S</div><div>TL</div><div>RV</div><div>FL</div></div> <div><div>W</div><div>RR</div><div>NP</div><div>SM</div></div> <div><div>SN</div><div>R</div><div>K</div><div>SM</div></div> | 12 V                                      | C 5 W             | PC / PC<br>silber - silver            | Schraubanschluss<br>screw terminals | 0,02 kg           |                          | <div>50</div> <div>E/180</div> | E1-12998 *           |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

## KENNZEICHENLEUCHTE K 307/308 \* NUMBER PLATE LIGHT K 307/308



|                                                                                     |                              |                                          |                                                                                                                                                                                                                                                               |                                                                         |                   |                                       |                                    |                   |                          |          |                      |
|-------------------------------------------------------------------------------------|------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
| · Aufbau-Montage<br>· Silberfarbiges Gehäuse<br>· Glühlampen in Soffittenform       |                              |                                          |                                                                                                                                                                                                                                                               | · surface mounting<br>· silver-coloured housing<br>· festoon-type bulbs |                   |                                       |                                    |                   |                          |          |                      |
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description              | Merkmale<br>Features                                                                                                                                                                                                                                          | Spann.<br>Voltage                                                       | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|  | <b>13.4003.100</b><br>K 307  | Kennzeichenleuchte<br>Number Plate Light | <div><div>BL<br/>DI</div><div>BR<br/>ST</div><div>S<br/>TL</div><div>W<br/>RV</div><div>SN<br/>FL</div><div>R<br/>RR</div><div><div><div>NP</div><div>SM</div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div></div></div> | 12 V                                                                    | 2 x C 5 W         | PMMA / ABS<br>silber - silver         | Flachsteckungen<br>blade terminals | 0,17 kg           |                          | 20       | E1-22817             |
|  | <b>13.4003.110</b><br>K 308  | Kennzeichenleuchte<br>Number Plate Light | <div><div>BL<br/>DI</div><div>BR<br/>ST</div><div>S<br/>TL</div><div>W<br/>RV</div><div>SN<br/>FL</div><div>R<br/>RR</div><div><div><div>NP</div><div>SM</div></div><div><div><div></div><div></div></div><div><div></div><div></div></div></div></div></div> | 12 V                                                                    | 2 x C 5 W         | PMMA / ABS<br>silber - silver         | Flachsteckungen<br>blade terminals | 0,20 kg           |                          | 10       | E1-22817             |
| Zusatz-Information:<br>Additional Information:                                      |                              |                                          | mit Abstandssockel<br>with adaptor                                                                                                                                                                                                                            |                                                                         |                   |                                       |                                    |                   |                          |          |                      |

Zusatz-Information:  
Additional Information:

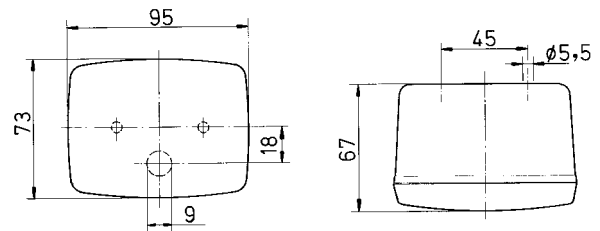
mit Abstandsockel  
with adaptor



Weitere Leuchten aus dieser Kategorie finden Sie im Kapitel „LEUCHTEN-SYSTEME“ \* For further lights of this series please refer to chapter „LIGHTING SYSTEMS“

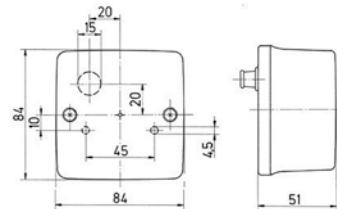


## NEBELSCHLUSSLEUCHTE SN 480 \* FOG LIGHT SN 480



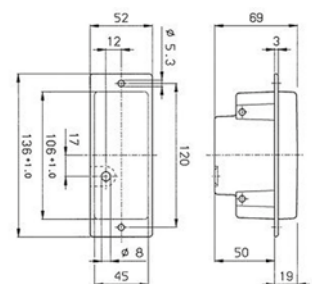
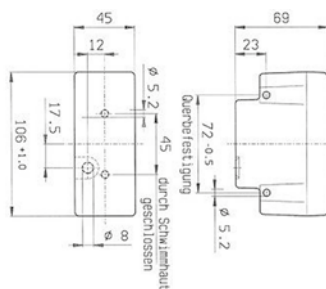
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                    | Merkmale<br>Features                                                                                                                                                                                                                                              | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.3003.000</b><br>SN 480 | Nebelschlussleuchte<br>Fog Light               | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> <div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> </div> <div> <div>•</div> </div> | 12 V              | P 21 W            | PC / ABS<br>rot - red                 | Flachsteckungen<br>blade terminals | 0,13 kg           |                          | 10       | E1-0018413           |
|                                                                                   |                              | Zusatz-Information:<br>Additional Information: | Aufbau-Montage<br>for surface mounting                                                                                                                                                                                                                            |                   |                   |                                       |                                    |                   |                          |          |                      |

## NEBELSCHLUSSLEUCHTE SN 3009 \* FOG LIGHT SN 3009



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description                    | Merkmale<br>Features                                                                                                                                                                                                                                              | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.3009.000</b><br>SN 3009 | Nebelschlussleuchte<br>Fog Light               | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> <div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> </div> <div> <div>•</div> </div> | 12 V              | P 21 W            | PMMA / PA<br>rot - red                | Flachsteckungen<br>blade terminals | 0,12 kg           |                          | 10       | E1-0018446           |
|                                                                                     |                               | Zusatz-Information:<br>Additional Information: | Aufbau-Montage<br>for surface mounting                                                                                                                                                                                                                            |                   |                   |                                       |                                    |                   |                          |          |                      |

## NEBELSCHLUSSLEUCHTE SN 3010 / SN 3010.1 \* FOG LIGHT SN 3010 / SN 3010.1



- Variante für Aufbau-Montage oder seitlichen Anbau
- Variante für Einbau-Montage

- surface mounting or lateral extension
- flush-fitting

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type    | Beschreibung<br>Description      | Merkmale<br>Features                                                                                                                                                                                                                                              | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|---------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.3010.000</b><br>SN 3010   | Nebelschlussleuchte<br>Fog Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> <div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> </div> <div> <div>•</div> </div> | 12 V              | P 21 W            | PC / ABS - PC<br>rot - red            | Flachsteckungen<br>blade terminals | 0,09 kg           |                          | 10       | E1-2577              |
|  | <b>13.3010.010</b><br>SN 3010.1 | Nebelschlussleuchte<br>Fog Light | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> <div>TL</div> <div>RV</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> <div> <div>S</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> </div> <div> <div>•</div> </div> | 12 V              | P 21 W            | PC / ABS - PC<br>rot - red            | Flachsteckungen<br>blade terminals | 0,09 kg           |                          | 10       | E1-2577              |

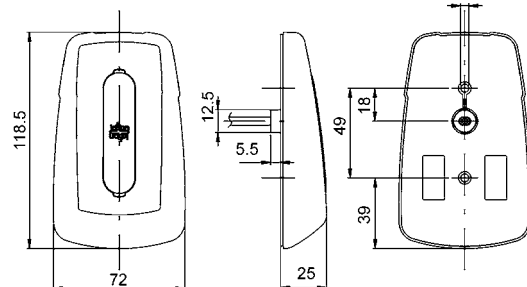
Weitere Leuchten aus dieser Kategorie finden Sie im Kapitel „LEUCHTEN-SYSTEME“ \* For further lights of this series please refer to chapter „LIGHTING SYSTEMS“



## LED-RÜCKFAHRLEUCHE W 2011-2 \* LED REVERSING LIGHT W 2011-2

Die LED-Leuchten der Serie L 2011 überzeugen mit ihrer äußerst kompakten Bauform. Zwei High-Power-LEDs sorgen in Verbindung mit einer hocheffizienten Schaltregler-Elektronik und einer wärmeableitenden Metallkern-Leiterkarte für eine optimale Lichtausbeute.

The LED lights of the series L 2011 convince with a very compact design. Two high power LED assure an optimal light output - in combination with a high efficiency switching circuit and a metal core PCB.



- LED-Rückfahrleuchte mit 2 weißen HighPower-LEDs
- 2 Leuchten paarweise (links + rechts) vorgeschrieben
- Senkrechte Aufbau-Montage
- Mit verchromtem Designteil
- Installation rückseitig (M4-Schraube) oder von vorne (ST3,5)
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Inkl. Zubehör: EPDM-Dichtung 1 mm / ST3,5-Schrauben (V2A)

- LED reversing light with 2 white high-power LEDs
- 2 lights (in pairs) (l/h + r/h) mandatory
- designed for vertical surface mounting
- with chrome-plated design part
- installation from rear (M4 screw) or front (ST3.5)
- incl. non visible membrane for thermodynamic balance
- incl. accessory: EPDM gasket 1 mm / ST3.5-screws (stainl.)

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection              | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------|--------------------------------------|--------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|--------------------------------------|-------------------|--------------------------|----------|------------------------|
|                 | <b>13.6034.000</b><br>W 2011-2/9-32V | LED Rückfahrleuchte<br>LED-Reversing Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 9-32 V            | 4 W               | PMMA / ABS-PC<br>klar - clear         | Kabel 300 mm/ADR<br>cable 300 mm/ADR | 0,11 kg           | -20 / +40°C<br>IP 67     | 36       | E13-13164<br>EMV / EMC |

## LED-RÜCKFAHRLEUCHE / ARBEITSSCHEINWERFER RV 15 \* LED REVERSING LIGHT / WORK LIGHT RV 15



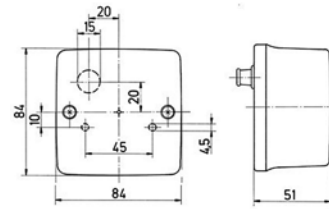
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                                          | Merkmale<br>Features      | Spann.<br>Voltage | Leistung<br>Power  | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp.       | VP<br>PU | Homolog.<br>Approval      |
|-----------------|-------------------------------------|----------------------------------------------------------------------|---------------------------|-------------------|--------------------|---------------------------------------|------------------------------|-------------------|--------------------------------|----------|---------------------------|
|                 | <b>13.7044.000</b><br>Work-On RV 15 | LED-Rückfahr-/ Arbeitsscheinwerfer<br>LED Reversing- / Working Light | Flood Beam<br>6000 Kelvin | 9-32 V            | 15 W<br>1300 Lumen | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm |                   | -40 / +50°C<br>IP 67 / IP 6K9K |          | E4-23566<br>E4-10R-064554 |
|                 | <b>13.7044.500</b><br>Work-On RV 15 | LED-Rückfahr-/ Arbeitsscheinwerfer<br>LED Reversing- / Working Light | Flood Beam<br>6000 Kelvin | 9-32 V            | 15 W<br>1300Lumen  | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm |                   | -40 / +50°C<br>IP 67 / IP 6K9K |          | E4-23566<br>E4-10R-064554 |

## LED-RÜCKFAHRLEUCHE / ARBEITSSCHEINWERFER RV 24 \* LED REVERSING LIGHT / WORK LIGHT RV 24



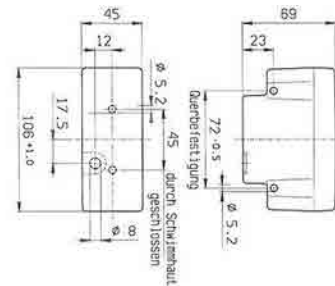
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                                          | Merkmale<br>Features      | Spann.<br>Voltage | Leistung<br>Power  | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp.       | VP<br>PU | Homolog.<br>Approval      |
|-----------------|-------------------------------------|----------------------------------------------------------------------|---------------------------|-------------------|--------------------|---------------------------------------|------------------------------|-------------------|--------------------------------|----------|---------------------------|
|                 | <b>13.7046.000</b><br>Work-On RV 24 | LED-Rückfahr-/ Arbeitsscheinwerfer<br>LED Reversing- / Working Light | Flood Beam<br>6000 Kelvin | 9-32 V            | 24 W<br>1700 Lumen | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm | 0,6 kg            | -40 / +50°C<br>IP 67 / IP 6K9K |          | E4-23566<br>E4-10R-064554 |

## RÜCKFAHRLEUCHE W 3009 \* REVERSING LIGHT W 3009



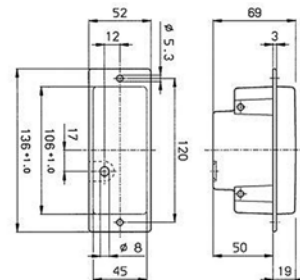
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                           | Merkmale<br>Features                                                                                                                      | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                  | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.6006.000</b><br>W 3009 | Rückfahrleuchte<br><i>Reversing Light</i>             | <div> <div>BL</div> <div>BR</div> <div>W</div> <div>TL</div> <div>TR</div> <div>FL</div> <div>FR</div> <div>NP</div> <div>SM</div> </div> | 12 V              | P 21 W            | PMMA / PA<br>klar - clear             | Fachsteckungen<br><i>blade terminals</i> | 0,12 kg           |                          | 10       | E1-008790            |
|                                                                                   |                              | Zusatz-Information:<br><i>Additional Information:</i> | Aufbau-Montage<br><i>surface mounting</i>                                                                                                 |                   |                   |                                       |                                          |                   |                          |          |                      |

**RÜCKFAHRLEUCHTE W 3010 \* REVERSING LIGHT W 3010**



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description               | Merkmale<br>Features                                                                | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                   | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.6010.000</b><br>W 3010 | Rückfahrleuchte<br><i>Reversing Light</i> |  | 12 V              | P 21 W            | PC / ABS + PC<br>klar - clear         | Flachsteckungen<br><i>blade terminals</i> | 0,09 kg           |                          | 20       | E1-2576              |
| Zusatz-Information:<br><i>Additional Information:</i>                               |                              |                                           | für den Aufbau oder seitlichen Anbau<br><i>for surface or lateral mounting</i>      |                   |                   |                                       |                                           |                   |                          |          |                      |

**RÜCKFAHRLEUCHE W 3010.1 \* REVERSING LIGHT W 3010.1**



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description                           | Merkmale<br>Features                                                                                                                                                                                                                                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                   | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.6010.010</b><br>W 3010.1 | Rückfahrleuchte<br><i>Reversing Light</i>             | <div> <div>BL<br/>DL</div> <div>BR<br/>ST</div> <div>W<br/>TL</div> <div>S<br/>RV</div> <div> <div>•</div> <div>SN</div> </div> <div>R<br/>FL</div> <div> <div>•</div> <div>RR</div> </div> <div>K<br/>NP</div> <div> <div>•</div> <div>SM</div> </div> </div> | 12 V              | P 21 W            | PC / ABS - PC<br>klar - clear         | Flachsteckungen<br><i>blade terminals</i> | 0,09 kg           |                          | 20       | E1-2576              |
|                                                                                     |                                | Zusatz-Information:<br><i>Additional Information:</i> | Einbau-Montage<br><i>flush fitting</i>                                                                                                                                                                                                                         |                   |                   |                                       |                                           |                   |                          |          |                      |

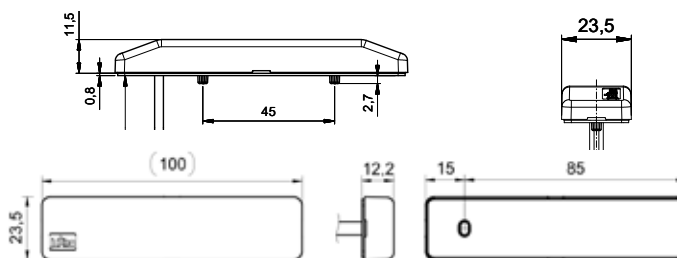
BEGRENZUNGS-, SEITENMARKIERUNGS- UND UMRISSELEUCHTEN  
FRONT MARKER-, SIDE MARKER-, END-OUTLINE MARKER LIGHTS





## LED-SEITENMARKIERUNGSLEUCHTE SMLR 2019 \* LED SIDE MARKER LIGHT SMLR 2019

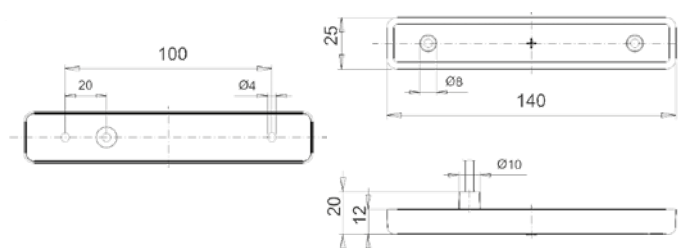
LED-Seitenmarkierungsleuchte (9-32 V) mit integriertem Rückstrahler und 3 LEDs, sehr flache Bauweise, Klebefestigung.  
LED-side-marker-light (9-32 V) with integrated reflex-reflector and 3 LEDs, very flat design, adhesive fastening.



| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type          | Beschreibung<br>Description                              | Merkmale<br>Features                                                              | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                                           | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------------------------------------------------|-------------------|--------------------------|----------|------------------------|
|  | <b>12.1003.000</b><br>SMLR 2019/9-32V | LED-Seitenmarkierungs-l.<br><i>LED Side Marker Light</i> |  | 9-32 V            | 0,5 / 1 W         | PMMA / ABS<br>gelb - yellow           | Kabel 500 mm<br>cable 500 mm                                      | 0,03 kg           | -20 / +50°C<br>IP 6K9K   | 60       | E13-14491<br>EMV / EMC |
|  | <b>12.1017.000</b><br>SLMR 2019-1/12V | LED-Seitenmarkleuchte<br><i>LED Side Marker Light</i>    |  | 12 V              | 1 W               | PMMA / ABS                            | Kabel 500 mm<br>cable 500 mm                                      | 0,03 kg           | -20/+50°C<br>IP 67       | 60       | E13-35915              |
|                                                                                   | <b>12.1017.100</b><br>SLMR 2019-1/12V | LED-Seitenmarkleuchte<br><i>LED Side Marker Light</i>    |  | 12 V              | 1 W               | PMMA / ABS                            | Kabel 250 mm, FLZ 6,3<br>cable 250 mm with blade<br>terminals 6,3 | 0,03 kg           | -20/+50°C<br>IP 67       | 60       | E13-35915              |

## LED-SEITENMARKIERUNGSLEUCHTE SMLR 2013 \* LED SIDE MARKER LIGHT SMLR 2013

LED-Seitenmarkierungsleuchte mit integriertem Rückstrahler (12 V) mit 3 LEDs in flacher Bauweise.  
LED-side-marker-light (12 V) with integrated reflex-reflector in a slim design.

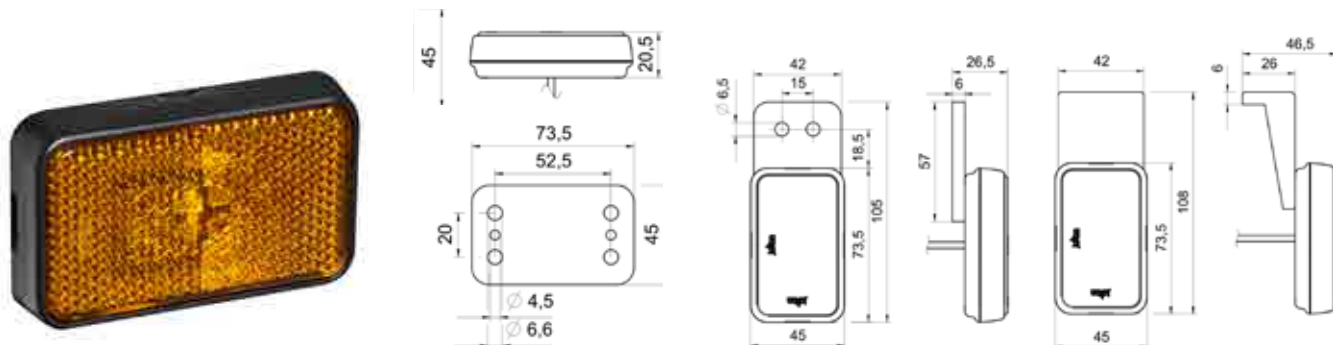


| · Aufbau vertikal oder horizontal                                                   |                                     |                                                          |                                                                                                                                                       | · surface mounting vertically or horizontally |                   |                                       |                              |                   |                          |                       |                      |
|-------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|-----------------------|----------------------|
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                              | Merkmale<br>Features                                                                                                                                  | Spann.<br>Voltage                             | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU              | Homolog.<br>Approval |
|  | <b>12.1019.000</b><br>SMLR 2013/12V | LED-Seitenmarkierungs-l.<br><i>LED Side Marker Light</i> | <div> <div>BL</div> <div>BR</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 12 V                                          | 0,6 W             | PMMA / ABS<br>gelb - yellow           | Kabel 250 mm<br>cable 250 mm | 0,05 kg           | IP 67                    | 50<br><div>E/34</div> | E1-2995              |
|                                                                                     | <b>12.1019.500</b><br>SMLR 2013/24V | LED-Seitenmarkierungs-l.<br><i>LED Side Marker Light</i> | <div> <div>BL</div> <div>BR</div> <div>W</div> <div>SN</div> <div>R</div> <div>K</div> <div>FL</div> <div>RR</div> <div>NP</div> <div>SM</div> </div> | 24 V                                          | 1,2 W             | PMMA / ABS<br>gelb - yellow           | Kabel 250 mm<br>cable 250 mm | 0,05 kg           | IP 67                    | 50                    | E1-2995              |
| Zusatz-Information:<br><i>Additional Information:</i>                               |                                     |                                                          | mit Flachsteckungen<br><i>with blade terminals</i>                                                                                                    |                                               |                   |                                       |                              |                   |                          |                       |                      |

## LED-SEITENMARKIERUNGSLEUCHTE SMLR 230 \* LED SIDE MARKER LIGHT SMLR 230

Die LED-Seitenmarkierungsleuchte mit Rückstrahler der Serie L 230 wurde auf vielfachen Kundenwunsch als Nachfolger/ Ersatz für die Glühlampenleuchten Typ SMLR 130 (siehe Seite 76) entwickelt. Entsprechend sind die Abmessungen identisch. Ein am Fahrzeug zu befestigendes Untergehäuse nimmt den eigentlichen Leuchenteil durch eine stabile Einclipsvorrichtung auf, daher sind die Befestigungsschrauben nicht sichtbar. Hochwertige LED's, optimierte Leiterkarten und eine entsprechende Homologation erlauben einen vielfältigen Einsatz dieser neuen Baureihe.

The LED sidemarker light with reflector of the L 230 series was developed at the request of many customers as a successor/replacement for the bulb lights type SMLR 130 (page 76). Accordingly, the dimensions are identical. An adapter housing to be fixed to the vehicle accommodates the actual lamp part by clip-in, therefore there are no visible fixing screws. High-quality LEDs, optimised circuit boards and corresponding homologation allow a wide range of applications for this new series.



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type           | Beschreibung<br>Description                          | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection        | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|----------------------------------------|------------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|--------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>12.1021.000</b><br>SMLR 230         | LED-Seitenmarkierungsleu.<br>LED Side / Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 1 W               | ABS / PMMA gelb<br>black / yellow     | Kabel 1000 mm<br>cable 1000 mm | 0,09 kg           | -20/+50°C<br>IP 67       | 20       | E13-35600            |
|                 | <b>12.1021.021</b><br>SMLR 230 m.P.    | LED-Seitenmarkierungsleu.<br>LED Side / Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 1 W               | ABS / PMMA gelb<br>black / yellow     | Kabel 1000 mm<br>cable 1000 mm | 0,10 kg           | -20/+50°C<br>IP 67       | 20       | E13-35600            |
|                 | <b>12.1021.031</b><br>SMLR 230 m.WP.   | LED-Seitenmarkierungsleu.<br>LED Side / Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 1 W               | ABS / PMMA gelb<br>black / yellow     | Kabel 1000 mm<br>cable 1000 mm | 0,11 kg           | -20/+50°C<br>IP 67       | 20       | E13-35600            |
|                 | <b>12.1021.300</b><br>SMLR 230 Flachka | LED-Seitenmarkierungsleu.<br>LED Side / Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | 1 W               | ABS / PMMA gelb<br>black / yellow     | Kabel 1000 mm<br>cable 1000 mm | 0,12 kg           | -20/+50°C<br>IP 67       | 20       | E13-35600            |

## LED-SEITENMARKIERUNGSLEUCHTE SMLR 2010 \* LED SIDE MARKER LIGHT SMLR 2010

Die LED-Seitenmarkierungsleuchten mit integriertem Rückstrahler der Serie 2010 werden in 12 V oder 24 V Ausführungen und verschiedene Dekorrahmen angeboten.  
The 2010 series LED-position-lights are offered in 12 V or 24 V versions and with different deco frames.



| · Aufbau-Montage<br>· Wasserdicht vergossen und anschlussfertig |                                                |                                                    | · surface mounting<br>· sealed in a waterproofed manner and ready for plug-in |                   |                   |                                       |                              |                   |                          |          |                      |
|-----------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|-------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture                                                 | Art.-Nr. / No.<br>Typ / Type                   | Beschreibung<br>Description                        | Merkmale<br>Features                                                          | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|                                                                 | <b>12.1015.000</b><br>SMLR 2010w/12V           | LED-Seitenmarkierungsleu.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                | 12 V              | 1 W               | PMMA / ASA<br>gelb - yellow           | Kabel 200 mm<br>cable 200 mm | 0,04 kg           | IP 67                    | 100      | SM1 00<br>E2-05024   |
|                                                                 | Zusatz-Information:<br>Additional Information: |                                                    | Rahmen weiss, Flachsteckungen<br>white frame, blade terminals                 |                   |                   |                                       |                              |                   |                          |          |                      |
|                                                                 | <b>12.1015.300</b><br>SMLR 2010g/12V           | LED-Seitenmarkierungsleu.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                | 12 V              | 1 W               | PMMA / ASA<br>gelb - yellow           | Kabel 200 mm<br>cable 200 mm | 0,04 kg           | IP 67                    | 100      | SM1 00<br>E2-05024   |
|                                                                 | Zusatz-Information:<br>Additional Information: |                                                    | Rahmen grau, Flachsteckungen<br>grey frame, blade terminals                   |                   |                   |                                       |                              |                   |                          |          |                      |
|                                                                 | <b>12.1015.600</b><br>SMLR 2010a/12V           | LED-Seitenmarkierungsleu.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                | 12 V              | 1 W               | PMMA / ASA<br>gelb - yellow           | Kabel 200 mm<br>cable 200 mm | 0,04 kg           | IP 67                    | 100      | SM1 00<br>E2-05024   |
|                                                                 | Zusatz-Information:<br>Additional Information: |                                                    | Rahmen gelb, Flachsteckungen<br>yellow frame, blade terminals                 |                   |                   |                                       |                              |                   |                          |          |                      |
|                                                                 | <b>12.1015.800</b><br>SMLR 2010a/24V           | LED-Seitenmarkierungsleu.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM                                | 24 V              | 1 W               | PMMA / ASA<br>gelb - yellow           | Kabel 500 mm<br>cable 500 mm | 0,04 kg           | IP 67                    | 100      | SM1 00<br>E2-05024   |
|                                                                 | Zusatz-Information:<br>Additional Information: |                                                    | Rahmen gelb<br>yellow frame                                                   |                   |                   |                                       |                              |                   |                          |          |                      |

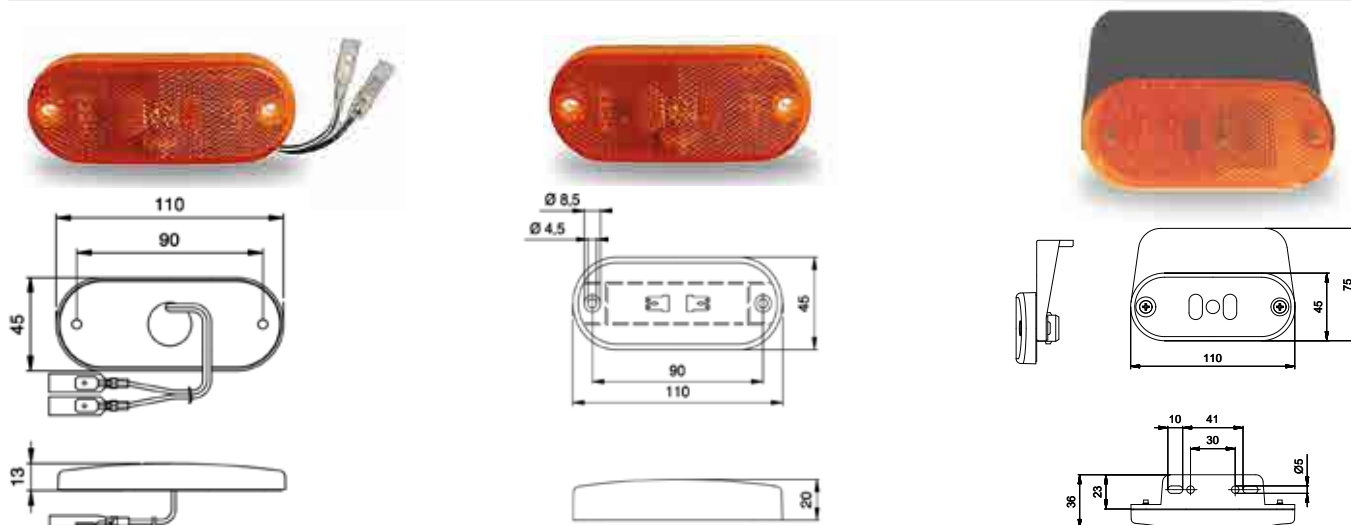
## Zubehör / Ersatzteile \* Accessories / Spare parts

|                    |                                                        |                                              |  |                       |  |  |  |  |  |  |  |
|--------------------|--------------------------------------------------------|----------------------------------------------|--|-----------------------|--|--|--|--|--|--|--|
| <b>G2.0039.000</b> | SMLR + PLR 2010 / Dichtung<br>SMLR + PLR 2010 / Gasket | selbstklebend / 1 mm<br>self-adhesive / 1 mm |  | hellgrau / light grey |  |  |  |  |  |  |  |
|--------------------|--------------------------------------------------------|----------------------------------------------|--|-----------------------|--|--|--|--|--|--|--|

## LED-SEITENMARKIERUNGSLEUCHTE SMLR 2002/ 2003/ 2004 \* LED SIDE MARKER LIGHT SMLR 2002/ 2003/ 2004

Die LED-Seitenmarkierungsleuchten der Serie 2002, 2003, 2004 verfügen über einen integrierten Rückstrahler und sind in 12 V, 24 V oder auch in 12/24 V Ausführungen lieferbar. Ferner sind Varianten mit Kabelanschluss, vertieftem Flachsteckanschluss und doppeltem AMP-Anschluss verfügbar.

The LED-side-marker-lights of the 2002, 2003, 2004 series have an integrated reflector and are available in 12 V, 24 V or 12/24 V versions. Variants with cable connection, recessed blade terminals and double AMP connection are also available.



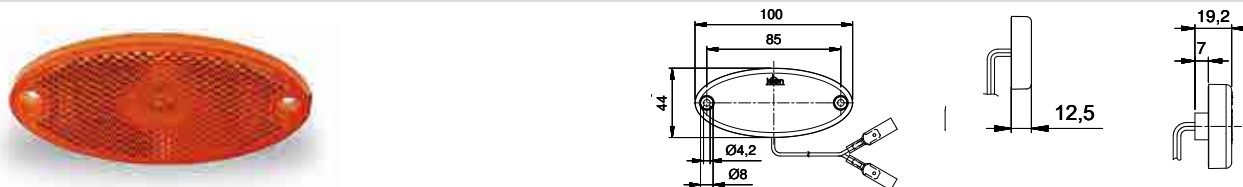
- SAE DOT bzw. FMVSS Zulassung für Nordamerika
- Aufbaumontage
- Varianten mit flexiblem Winkelhalter auf Anfrage
- Anschlusskabel mit Flachsteckungen
- Doppelte Flachsteckungen (2 x 2,8 mm) im Leuchtenboden (L 2003)
- 2-fach AMP-Steckanschluss (L2004)
- Wasserdicht vergossen und anschlussfertig
- SAE DOT - FMVSS report for North America
- surface mounting
- variants with flexible angle bracket on request
- connecting cable with flat terminals
- double flat tabs (2 x 2,8 mm) in the base of the lamp (L 2003)
- 2-integrated AMP-Connectors (L 2004)
- sealed in a waterproofed manner and ready for plug-in

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type            | Beschreibung<br>Description                       | Merkmale<br>Features                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-----------------------------------------|---------------------------------------------------|---------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>12.1008.100</b><br>SMLR 2002/12V     | LED-Seitenmarkierungs-l.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 0,6 W             | PMMA / ABS<br>gelb - yellow           | Kabel 100 mm<br>cable 100 mm       | 0,04 kg           | IP 67                    | 100      | E2-0062<br>SAE       |
|                 | <b>12.1010.150</b><br>SMLR 2002/24V     | LED-Seitenmarkierungs-l.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 1,2 W             | PMMA / ABS<br>gelb - yellow           | Kabel 165 mm<br>cable 165 mm       | 0,04 kg           | IP 67                    | 100      | E2-0062<br>SAE       |
|                 | <b>12.1009.000</b><br>SMLR 2003/12V     | LED-Seitenmarkierungs-l.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 0,6 W             | PMMA / ABS<br>gelb - yellow           | Flachsteckungen<br>blade terminals | 0,05 kg           | IP 67                    | 100      | E2-0062<br>SAE       |
|                 | <b>12.1013.600</b><br>SMLR 2004/WH Flex | LED-Seitenmarkierungs-l.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 0,6 W             | PMMA / ABS<br>gelb - yellow           | 2 AMP<br>2 AMP                     | 0,08 kg           | IP 67                    | 50       | E2-0062<br>SAE       |
|                 | <b>12.1014.600</b><br>SMLR 2004/WH Flex | LED-Seitenmarkierungs-l.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 1,2 W             | PMMA / ABS<br>gelb - yellow           | 2 AMP<br>2 AMP                     | 0,08 kg           | IP 67                    | 50       | E2-0062<br>SAE       |

## LED-SEITENMARKIERUNGSLEUCHTE SMLR 2012 \* LED SIDE MARKER LIGHT SMLR 2012

Die LED-Seitenmarkierungsleuchten L 2012 mit integriertem Rückstrahler sind in 12 V oder 24 V Ausführungen verfügbar.

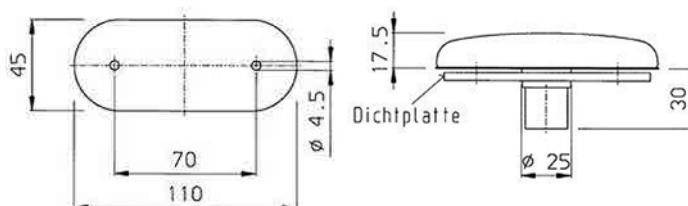
The 2012 series of LED-side-marker-lights with integrated reflector are available in 12 V or 24 V versions.



- Aufbau-Montage & Flachsteckungen
- Wasserdicht vergossen und anschlussfertig
- surface mounting & blade terminals
- sealed in a waterproofed manner and ready for plug-in

| Bild<br>Picture                                | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                       | Merkmale<br>Features                        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|------------------------------------------------|--------------------------------------|---------------------------------------------------|---------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                                                | <b>12.1018.020</b><br>SMLR 2012b/12V | LED-Seitenmarkierungs-l.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 1 W               | PMMA / ABS<br>gelb - yellow           | Kabel 200 mm<br>cable 200 mm | 0,03 kg           | IP 67                    | 100      | E2-06028<br>+ IA     |
|                                                | <b>12.1018.030</b><br>SMLR 2012b/12V | LED-Seitenmarkierungs-l.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 12 V              | 1 W               | PMMA / ABS<br>gelb - yellow           | Kabel 200 mm<br>cable 200 mm | 0,03 kg           | IP 67                    | 100      | E2-06028<br>+ IA     |
| Zusatz-Information:<br>Additional Information: |                                      |                                                   | mit Kabeltopf<br>with cable pot             |                   |                   |                                       |                              |                   |                          |          |                      |
|                                                | <b>12.1018.500</b><br>SMLR 2012b/24V | LED-Seitenmarkierungs-l.<br>LED Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP | 24 V              | 1 W               | PMMA / ABS<br>gelb - yellow           | Kabel 200 mm<br>cable 200 mm | 0,03 kg           | IP 67                    | 100      | E2-06028<br>+ IA     |

## SEITENMARKIERUNGSLEUCHE SMLR 2000 \* SIDE MARKER LIGHT SMLR 2000

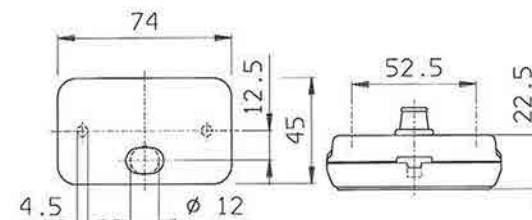


- Einbau-Montage
- Mit integriertem Rückstrahler
- Glassockellampe montiert

- flush fitting
- with integrated reflex reflector
- glass-base bulb fitted

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type    | Beschreibung<br>Description                   | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|----------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>12.1001.001</b><br>SMLR 2000 | Seitenmarkierungsleuchte<br>Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | W 5 W             | SAN / PC<br>gelb - yellow             | Flachsteckanschluss<br>blade terminals | 0,05 kg           |                          | 10       | E1-1003<br>E1 1001   |

## SEITENMARKIERUNGSLEUCHE SMLR 130 \* SIDE MARKER LIGHT SMLR 130

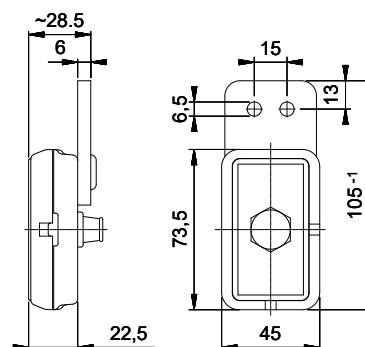


- Aufbau-Montage
- Mit integriertem Rückstrahler
- Glühlampe in Soffittenform

- surface mounting
- with integrated reflex reflector
- festoon-type bulb

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description                   | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|------------------------|
|  | <b>12.1004.001</b><br>SMLR 130 | Seitenmarkierungsleuchte<br>Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | C 5 W             | PMMA / PC<br>gelb - yellow            | Flachsteckungen<br>blade terminals | 0,03 kg           |                          | 50       | E1-00108<br>E1-0221339 |

## SEITENMARKIERUNGSLEUCHE SMLR 130 \* SIDE MARKER LIGHT SMLR 130



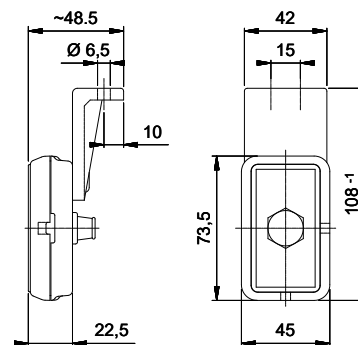
- Aufbau-Montage
- Integrierter Rückstrahler
- Mit elastischem Pendel
- Glühlampe in Soffittenform

- surface mounting
- integrated reflex reflector
- with elastic support
- festoon-type bulb

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description                   | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|------------------------|
|  | <b>12.1004.021</b><br>SMLR 130-P | Seitenmarkierungsleuchte<br>Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | C 5 W             | PMMA / PC / TPU<br>gelb - yellow      | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 100      | E1-00108<br>E1-0221339 |



## SEITENMARKIERUNGSLEUCHE SMLR 130 \* SIDE MARKER LIGHT SMLR 130

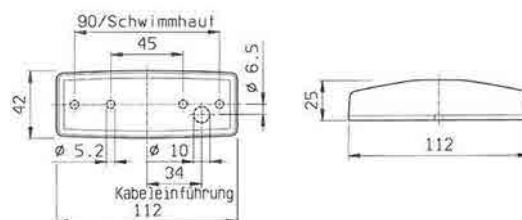


- Aufbau-Montage
- Integrierter Rückstrahler
- Mit Winkelpendel
- Glühlampe in Soffittenform

- surface mounting
- integrated reflex reflector
- with angular support
- festoon-type bulb

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                   | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval   |
|-----------------------------------------------------------------------------------|-----------------------------------|-----------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|------------------------|
|  | <b>12.1004.031</b><br>SMLR 130-WP | Seitenmarkierungsleuchte<br>Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | C 5 W             | PMMA / PC / TPU<br>gelb - yellow      | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 100      | E1-00108<br>E1-0221339 |

## SEITENMARKIERUNGSLEUCHE SMLR 1007 \* SIDE MARKER LIGHT SMLR 1007

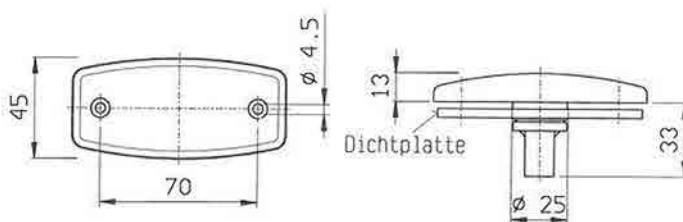


- Aufbau-Montage
- Integrierter Rückstrahler
- Glassockellampe montiert

- surface mounting
- integrated reflex reflector
- glass-base bulb fitted

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type    | Beschreibung<br>Description                   | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>12.1007.001</b><br>SMLR 1007 | Seitenmarkierungsleuchte<br>Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | W 5 W             | PMMA / ABS<br>gelb - yellow           | Flachsteckungen<br>blade terminals | 0,06 kg           |                          | 20       | E3-52278             |

## SEITENMARKIERUNGSLEUCHE SMLR 1006 \* SIDE MARKER LIGHT SMLR 1006



- Einbau-Montage
- Integrierter Rückstrahler
- Glühlampe montiert

- flush fitting
- integrated reflex reflector
- bulb fitted

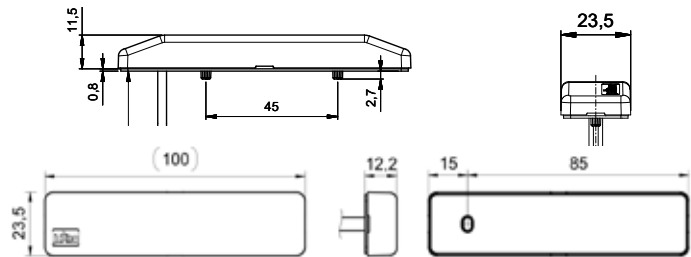
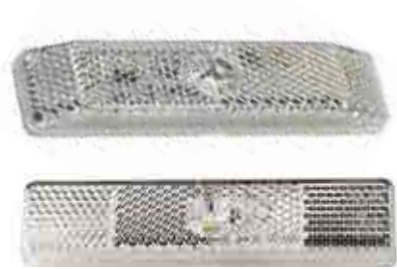
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type    | Beschreibung<br>Description                   | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|---------------------------------|-----------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>12.1006.001</b><br>SMLR 1006 | Seitenmarkierungsleuchte<br>Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | W 5 W             | PMMA / PC<br>gelb - yellow            | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 10       | E1 1292              |
|  | <b>12.1006.101</b><br>SMLR 1006 | Seitenmarkierungsleuchte<br>Side Marker Light | BL BR S W SN R K SM<br>DI ST TL RV FL RR NP SM | 12 V              | W 5 W             | PMMA / PC<br>gelb - yellow            | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 10       | E1 1292              |

Zusatz-Information:  
Additional Information:

mit Untergehäuse und Dichtung  
with substructure and gasket

## LED-BEGRENZUNGSLEUCHTE PLR 2019 \* LED FRONT MARKER LIGHT PLR 2019

LED-Begrenzungsleuchte (9-32 V) mit integriertem Rückstrahler und 3 LEDs, sehr flache Bauweise, Klebefestigung.  
LED-position lights (9-32 V) with integrated reflex-reflector and 3 LEDs, very flat design, adhesive fastening.



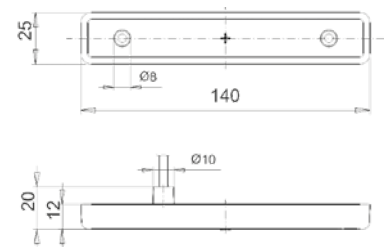
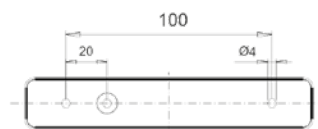
- Sehr kompaktes und attraktives Design
- Installation rückseitig mit Automotive -3M Klebeband
- Kann in beliebigem Winkel (360°/X-Achse) angebracht werden
- Aufbau oder (vertiefter) Einbau

- compact and attractive design
- installation from rear with automotive 3M self-adhesive tape
- can be mounted in any angle (360°/X-axis)
- designed for surface or (deepened) flush mounting

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                             | Merkmale<br>Features                                                                                                                                                                                                                                                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                                                | Gewicht<br>Weight | IP / Temp.<br>IP / Temp.      | VP<br>PU | Homolog.<br>Approval   |
|-----------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------------------------------------------|-------------------|-------------------------------|----------|------------------------|
|  | <b>11.1025.000</b><br>PLR 2019/9-32V | LED-Begrenzungsleuchte<br><i>LED Front Marker Light</i> | integrierter Rückstr.<br><i>integrated reflex refl.</i>                                                                                                                                                                                                                        | 9-32 V            | 1W                | PMMA / ABS<br>klar - clear            | Kabel 800 mm<br><i>cabl e 800 mm</i>                                   | 0,03 kg           | -20 / +50°C<br><i>IP 6K9K</i> | 60       | E13-24816<br>EMV / EMC |
|  | <b>11.1027.000</b><br>PLR 2019-1/12V | LED-Begrenzungsleuchte<br><i>LED Front Marker Light</i> | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> </div> <div> <div>S</div> <div>W</div> <div>TL</div> <div>RV</div> </div> <div> <div>SN</div> <div>R</div> <div>PL</div> <div>FL</div> </div> <div> <div>●</div> <div>K</div> <div>NP</div> <div>PL</div> </div> | 12 V              | 1 W               | PMMA / ABS                            | Kabel 500 mm<br><i>cabl e 500 mm</i>                                   | 0,03 kg           | -20/+50°C<br><i>IP 67</i>     | 60       | E13-35914              |
|                                                                                   | <b>11.1027.100</b><br>PLR 2019-1/12V | LED-Begrenzungsleuchte<br><i>LED Front Marker Light</i> | <div> <div>BL</div> <div>BR</div> <div>DI</div> <div>ST</div> </div> <div> <div>S</div> <div>W</div> <div>TL</div> <div>RV</div> </div> <div> <div>SN</div> <div>R</div> <div>PL</div> <div>FL</div> </div> <div> <div>●</div> <div>K</div> <div>NP</div> <div>PL</div> </div> | 12 V              | 1 W               | PMMA / ABS                            | Kabel 250 mm, FLZ 6,3<br><i>cabl e 250 mm with blade terminals 6.3</i> | 0,03 kg           | -20/+50°C<br><i>IP 67</i>     | 60       | E13-35914              |

**LED-BEGRENZUNGSLEUCHTE PLR 2013 \* LED FRONT MARKER LIGHT PLR 2013**

LED-Begrenzungsleuchte, Varianten mit und ohne integriertem Rückstrahler (12 V) mit LEDs in flacher Bauweise.  
LED-position-light (12 V), variants with and without integrated reflex-reflector in a slim design.



- Aufbau vertikal oder horizontal

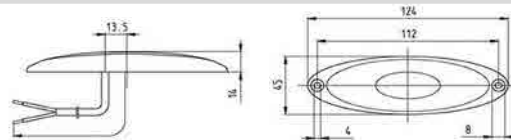
- surface mounting vertically or horizontally

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                             | Merkmale<br>Features                                  | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------|-------------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>11.1020.000</b><br>PLR 2013/12V | LED Begrenzungsleuchte<br><i>LED Front Marker Light</i> | integrierter Rückst.<br><i>integrated reflex refl</i> | 12 V              | 0,6 W             | PMMA / ABS<br>klar - clear            | Kabel 250 mm<br><i>cabl 250 mm</i> | 0,05 kg           | IP 67                    | 75       | E1-3375              |
|                                                                                     | <b>11.1021.000</b><br>PLR 2013/24V | LED Begrenzungsleuchte<br><i>LED Front Marker Light</i> | integrierter Rückst.<br><i>integrated reflex refl</i> | 24 V              | 1,2 W             | PMMA / ABS<br>klar - clear            | Kabel 250 mm<br><i>cabl 250 mm</i> | 0,05 kg           |                          | 75       | E1-3375              |
| Zusatz-Information:<br><i>Additional Information:</i>                               |                                    |                                                         | mit Flachsteckungen<br><i>with blade terminals</i>    |                   |                   |                                       |                                    |                   |                          |          |                      |
|  | <b>13.5025.000</b><br>PL 2013/12V  | LED Begrenzungsleuchte<br><i>LED Front Marker Light</i> | vorne<br><i>front</i>                                 | 12 V              | 0,6 W             | PMMA / ABS<br>klar - clear            | Kabel 250 mm<br><i>cabl 250 mm</i> | 0,05 kg           | IP 67                    | 75       | E1-3374              |
|                                                                                     | <b>13.5026.000</b><br>PL 2013/24V  | LED Begrenzungsleuchte<br><i>LED Front Marker Light</i> | vorne<br><i>front</i>                                 | 24 V              | 1,2 W             | PMMA / ABS<br>klar - clear            | Kabel 250 mm<br><i>cabl 250 mm</i> | 0,05 kg           |                          | 75       | E1-3374              |
| Zusatz-Information:<br><i>Additional Information:</i>                               |                                    |                                                         | mit Flachsteckungen<br><i>with blade terminals</i>    |                   |                   |                                       |                                    |                   |                          |          |                      |



## LED-BEGRENZUNGSLEUCHTE PLR 2010 \* LED FRONT MARKER LIGHT PLR 2010

Die Begrenzungsleuchten mit integriertem Rückstrahler der Serie 2010 werden in 12 V oder 24 V Aufbauversionen angeboten.  
The front marker lights 2010 are offered in 12 V or 24 V versions for surface-mounting.



- Dekorrahmen in weiß oder farblos klar lieferbar
- Wasserdicht vergossen und anschlussfertig

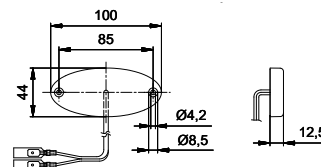
- decorative frame available in white or colorless clear
- sealed in a waterproofed manner and ready for plug-in

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                      | Merkmale<br>Features         | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------------|--------------------------------------------------|------------------------------|-------------------|-------------------|---------------------------------------|----------------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>11.1016.000</b><br>PLR 2010w/12V | LED Begrenzungsleuchte<br>LED Front Marker Light | Rahmen weiß<br>white frame   | 12 V              | 1 W               | PMMA / ASA<br>klar - clear            | Kabel 200 mm<br>cable 200 mm           | 0,04 kg           | IP 67                    | 50       | SM1 00<br>E2-05025   |
|                 | <b>11.1016.600</b><br>PLR 2010c/12V | LED Begrenzungsleuchte<br>LED Front Marker Light | Rahmen transp<br>clear frame | 12 V              | 1 W               | PMMA / ASA<br>klar - clear            | Kabel 200 mm / FZ<br>cable 200 mm / BT | 0,04 kg           | IP 67                    | 10       | SM1 00<br>E2-05025   |

## LED-BEGRENZUNGSLEUCHTE PLR 2012 \* LED FRONT MARKER LIGHT PLR 2012

Die Begrenzungsleuchten der Serie 2012 werden in 12 V oder 24 V Ausführungen angeboten und sind mit oder ohne Rückstrahler lieferbar. Sie verfügen über 200 mm Anschlusskabel mit montierten Flachsteckungen.

The 2012 series position-lights are offered in 12 V or 24 V versions and are available with or without reflectors. They have 200 mm connection cable with flat tabs.



- Aufbaumontage
- Wasserdicht vergossen und anschlussfertig

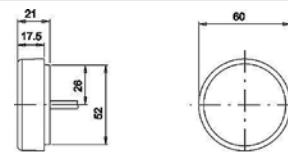
- surface mounting
- sealed in a waterproofed manner and ready for plug-in

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                      | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------------|--------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>11.1024.000</b><br>PLR 2012b/12V | LED Begrenzungsleuchte<br>LED Front Marker Light | integrierter Rückst.<br>integrated reflex refl | 12 V              | 1 W               | PMMA / ABS<br>klar - clear            | Kabel 200 mm<br>cable 200 mm | 0,03 kg           | IP 67                    | 50       | E2-06030<br>IA-06028 |
|                 | <b>11.1024.500</b><br>PLR 2012b/24V | LED Begrenzungsleuchte<br>LED Front Marker Light | integrierter Rückst.<br>integrated reflex refl | 24 V              | 1 W               | PMMA / ABS<br>klar - clear            | Kabel 200 mm<br>cable 200 mm | 0,03 kg           | IP 67                    | 20       | E2-06030<br>IA-06028 |
|                 | <b>13.5029.000</b><br>PL 2012b/12V  | LED Begrenzungsleuchte<br>LED Front Marker Light | vorne front                                    | 12 V              | 1 W               | PMMA / ABS<br>klar - clear            | Kabel 200 mm<br>cable 200 mm | 0,03 kg           | IP 67                    | 10       | E2-06029             |
|                 | <b>13.5029.500</b><br>PL 2012b/24V  | LED Begrenzungsleuchte<br>LED Front Marker Light | vorne front                                    | 24 V              | 1 W               | PMMA / ABS<br>klar - clear            | Kabel 200 mm<br>cable 200 mm | 0,03 kg           | IP 67                    | 10       | E2-06029             |

## LED-BEGRENZUNGSLEUCHTE PLR 60/PL60 \* LED FRONT MARKER LIGHT PLR 60/PL60

Die Begrenzungsleuchten der Serie 60 werden in 12 V oder 24 V Ausführungen angeboten und sind als Varianten mit und ohne Rückstrahler erhältlich.

Series 60 position-lights are offered in 12 V or 24 V versions and are available as variants with and without reflex-reflectors.



- Aufbaumontage
- Wasserdicht vergossen und anschlussfertig

- surface mounting
- sealed in a waterproofed manner and ready for plug-in

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                      | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-----------------------------------|--------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>11.1023.000</b><br>PLR 60b/12V | LED Begrenzungsleuchte<br>LED Front Marker Light | integrierter Rückst.<br>integrated reflex refl | 12 V              | 1 W               | PMMA / ABS<br>klar - clear            | Kabel 700 mm<br>cable 700 mm | 0,05 kg           | IP 67                    | 50       | E2-07077<br>E2-07078 |
|                 | <b>11.1023.500</b><br>PLR 60b/24V | LED Begrenzungsleuchte<br>LED Front Marker Light | integrierter Rückst.<br>integrated reflex refl | 24 V              | 1 W               | PMMA / ABS<br>klar - clear            | Kabel 700 mm<br>cable 700 mm | 0,05 kg           | IP 67                    | 10       | E2-07077<br>E2-07078 |
|                 | <b>13.5027.000</b><br>PL 60b/12V  | LED Begrenzungsleuchte<br>LED Front Marker Light |                                                | 12 V              | 1 W               | PMMA / ABS<br>klar - clear            | Kabel 200 mm<br>cable 200 mm | 0,05 kg           | IP 67                    | 20       | E2-07078             |
|                 | <b>13.5027.500</b><br>PL 60b/24V  | LED Begrenzungsleuchte<br>LED Front Marker Light |                                                | 24 V              | 1 W               | PMMA / ABS<br>klar - clear            | Kabel 200 mm<br>cable 200 mm | 0,05 kg           | IP 67                    | 50       | E2-07078             |

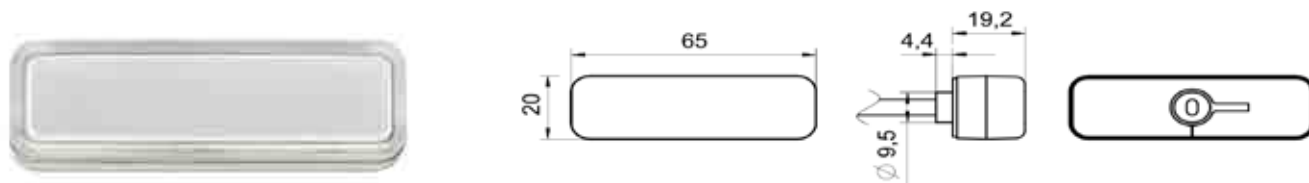
Zusatz-Information:  
Additional Information:

Aufbau-Montage, mit Flachsteckungen  
surface mounting, with blade terminals



## LED-LEUCHTEN-SYSTEM L 40 \* LED LIGHTING SYSTEM L 40

Innovative LED-Einzelfunktionsleuchten mit homogener Lichtaustrittsfläche in 12 V oder 24 V Ausführung.  
Innovative LED single function lights with homogeneous light emission surface in 12 V or 24 V version.



- Sehr kompaktes und attraktives Design
- Installation rückseitig mit Automotive -3M Klebeband
- Beliebige Winkel (360°/X-Achse) wählbar
- Aufbau oder (vertiefter) Einbau

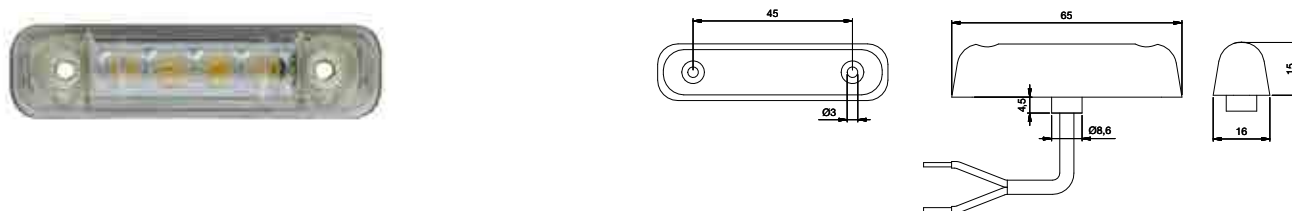
- compact and attractive design
- installation from rear with automotive 3M self-adhesive tape
- can be mounted in any angle (360°/X-axis)
- designed for surface or (deepened) flush mounting

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type    | Beschreibung<br>Description                      | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection        | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|---------------------------------|--------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|--------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>13.5031.000</b><br>PL 40/12V | LED-Begrenzungsleuchte<br>LED Front Marker Light | BL BR S W SN R K PL<br>DI ST TL RV FL RR NP FL | 12 V              | 1 W               | PMMA / ABS                            | Kabel 250 mm<br>cable 250 mm   |                   | -20/+50°C<br>IP 67       |          | E1-5204              |
|                 | <b>13.5031.010</b><br>PL 40/12V | LED-Begrenzungsleuchte<br>LED Front Marker Light | BL BR S W SN R K PL<br>DI ST TL RV FL RR NP FL | 12 V              | 1 W               | PMMA / ABS                            | Kabel 5000 mm<br>cable 5000 mm |                   | -20/+50°C<br>IP 67       |          | E1-5204              |
|                 | <b>13.5032.000</b><br>PL 40/24V | LED-Begrenzungsleuchte<br>LED Front Marker Light | BL BR S W SN R K PL<br>DI ST TL RV FL RR NP FL | 24 V              | 1 W               | PMMA / ABS                            | Kabel 250 mm<br>cable 250 mm   |                   | -20/+50°C<br>IP 67       |          |                      |

## LED-BEGRENZUNGSLEUCHTE PL 24-2 \* LED FRONT MARKER LIGHT PL 24-2

Die Begrenzungsleuchten der Serie 24-2 haben sehr kompakte Abmessungen. Sie sind für den horizontalen oder vertikalen Anbau zugelassen und lieferbar in 12 V oder 24 V Ausführungen.

Position-lights of the 24-2 series have very compact dimensions. They are approved for horizontal or vertical mounting and are offered in 12 V or 24 V versions.



- Aufbaumontage
- 4 SMT-Leuchtdioden
- Wasserdicht vergossen und anschlussfertig
- Zusätzliche Dichtung erhältlich

- surface mounting
- 4 LEDs
- sealed in a waterproofed manner and ready for plug-in
- additional gasket available

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                      | Merkmale<br>Features                     | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-----------------------------------|--------------------------------------------------|------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>13.5021.000</b><br>PL 24-2/12V | LED Begrenzungsleuchte<br>LED Front Marker Light | mit Schraubfest-<br>montierung by screws | 12 V              | 0,5 W             | PMMA / ABS<br>klar - clear            | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | IP 67                    | 10       | E2-0205018           |
|                 | <b>13.5022.000</b><br>PL 24-2/24V | LED Begrenzungsleuchte<br>LED Front Marker Light | mit Schraubfest-<br>montierung by screws | 24 V              | 0,5 W             | PMMA / ABS<br>klar - clear            | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | IP 67                    | 10       | E2-0205018           |

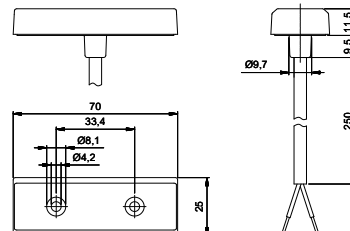
## Zubehör / Ersatzteile \* Accessories / Spare parts

|                    |                    |                                          |                                   |  |  |  |  |  |  |  |  |
|--------------------|--------------------|------------------------------------------|-----------------------------------|--|--|--|--|--|--|--|--|
| <b>G2.0037.000</b> | Dichtung<br>Gasket | S + PL 24-2 / 2 mm<br>S + PL 24-2 / 2 mm | Kautschuk / rubber<br>grau - grey |  |  |  |  |  |  |  |  |
|--------------------|--------------------|------------------------------------------|-----------------------------------|--|--|--|--|--|--|--|--|

## LED-BEGRENZUNGSLEUCHTE PL 251 \* LED FRONT MARKER LIGHT PLR 251

Die L 251 ist als Begrenzungsleuchte sehr flexibel einsetzbar: Sie kann horizontal oder vertikal auf bis zu 25° nach oben oder zur Seite geneigten Fahrzeug-Wänden montiert werden, ohne dass spezielle Adapter benötigt werden. Dadurch wird die Montagezeit erheblich reduziert. Sie ist einerseits kompakt, andererseits aber erfüllt sie mit einer leuchtenden Fläche von 12,5 cm<sup>2</sup> exakt die Mindestvorgaben an eine vollwertige Begrenzungsleuchte.

The L 251 can be very flexibly installed as a front marker light. The light can be mounted either horizontally or vertically on vehicle walls which have an inclination of up to 25°, either upwards or sideways. No special adapters are necessary, which reduces the mounting time significantly. The light is quite compact, but with a luminous area of 12.5 cm<sup>2</sup> it fulfills the minimum requirements for an adequate front marker light.



- LED-Begrenzungsleuchte (4 LED's)
- Aufbau-Montage (Schrauben 4mm)
- Bis 25° Neigung nach oben oder zur Seite montierbar

- LED front marker light (4 LED's)
- surface mounting (screws 4mm)
- can be mounted with an inclination of 25° upwards or sideways

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description                      | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.5024.000</b><br>PL 251/12V | LED Begrenzungsleuchte<br>LED Front Marker Light |                      | 12 V              | 1 W               | PC / ABS-PC<br>klar - clear           | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13174            |
|                                                                                   | <b>13.5024.500</b><br>PL 251/24V | LED Begrenzungsleuchte<br>LED Front Marker Light |                      | 24 V              | 1 W               | PC / ABS-PC<br>klar - clear           | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | -20 / +50°C<br>IP 67     | 10       | E13-13174            |

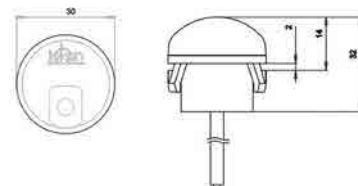
## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                    |                                  |                                                       |  |  |                 |  |  |  |  |  |
|--|--------------------|----------------------------------|-------------------------------------------------------|--|--|-----------------|--|--|--|--|--|
|  | <b>G2.0046.000</b> | Dichtung / 2 mm<br>Gasket / 2 mm | einseitig selbstklebend<br>unilaterally self-adhesive |  |  | schwarz - black |  |  |  |  |  |
|--|--------------------|----------------------------------|-------------------------------------------------------|--|--|-----------------|--|--|--|--|--|

## LED-BEGRENZUNGSLEUCHTE PL 30 \* LED FRONT MARKER LIGHT PL 30

Die Begrenzungsleuchten der Serie 30 mit sehr kompakten Abmessungen wurden für den Einsatz im 12 V oder 24 V Bereich (9-33 V) konzipiert.

Position-lights type of the 30 series tail lights are designed for use in the 12 V or 24 V range (9-33 V).



- Einbaumontage
- Wasserdicht vergossen und anschlussfertig

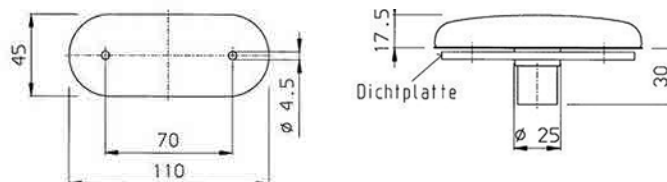
- flush fitting
- sealed in a waterproofed manner and ready for plug-in

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                      | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------------|--------------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.5010.000</b><br>PL 30b/9-33V | LED Begrenzungsleuchte<br>LED Front Marker Light |                      | 9-33 V            | 0,6 W             | PMMA / ABS<br>klar - clear            | Kabel 250 mm<br>cable 250 mm | 0,02 kg           | IP 67                    | 10       | E2-05035             |

Zusatz-Information:  
Additional Information:

Einbau-Montage  
flush fitting

## BEGRENZUNGSLEUCHTE PLR 2000 \* FRONT MARKER LIGHT PLR 2000

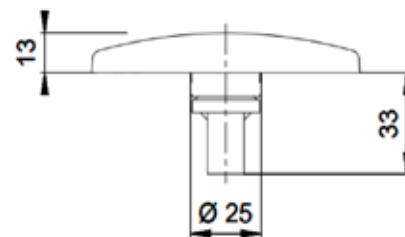
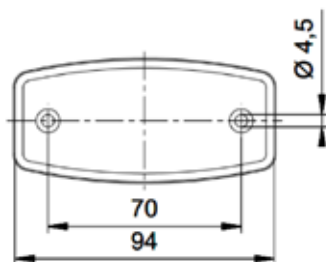


- Einbau-Montage
- Mit integriertem Rückstrahler
- Glassockellampe montiert

- flush fitting
- with integrated reflex reflector
- glass-base bulb fitted

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description              | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|--------------------------------|------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>11.1008.001</b><br>PLR 2000 | Begrenzungsleuchte<br>Front Marker Light |                      | 12 V              | W 5 W             | SAN / PC<br>klar - clear              | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 20       | E1-021002            |

## BEGRENZUNGSLEUCHE PLR 1006 \* FRONT MARKER LIGHT PLR 1006

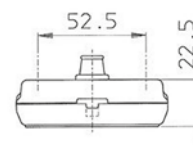
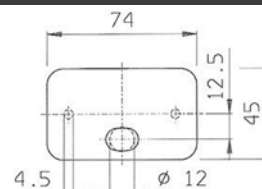


- Mit integriertem Rückstrahler
- Einbau-Montage
- Glassockellampe montiert

- with integrated reflex reflector
- flush fitting
- glass base-bulb fitted

| Bild<br>Picture                                                                  | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description              | Merkmale<br>Features                  | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|----------------------------------------------------------------------------------|--------------------------------|------------------------------------------|---------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>11.1006.001</b><br>PLR 1006 | Begrenzungsleuchte<br>Front Marker Light |                                       | 12 V              | W 5 W             | PMMA / PC<br>klar - clear             | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 20       | E1-1292              |
|  | <b>11.1006.011</b><br>PLR 1006 | Begrenzungsleuchte<br>Front Marker Light | mit Dichtung<br>with gasket           | 12 V              | W 5 W             | PMMA / PC<br>klar - clear             | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 20       | E1-1292              |
|  | <b>11.1006.101</b><br>PLR 1006 | Begrenzungsleuchte<br>Front Marker Light | mit Untergehäuse<br>with substructure | 12 V              | W 5 W             | PMMA / PC<br>klar - clear             | Flachsteckungen<br>blade terminals | 0,08 kg           |                          | 20       | E1-1292              |

## BEGRENZUNGSLEUCHE PL/PLR 130 \* FRONT MARKER LIGHT PL/PLR 130

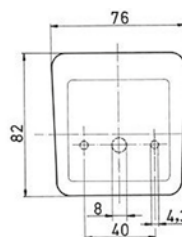


- Aufbau-Montage
- Glühlampe in Soffittenform

- surface mounting
- festoon-type bulb

| Bild<br>Picture                                                                    | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description              | Merkmale<br>Features                            | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval     |
|------------------------------------------------------------------------------------|-------------------------------|------------------------------------------|-------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|-------------|--------------------------|
|  | <b>13.5011.001</b><br>PL 130  | Begrenzungsleuchte<br>Front Marker Light |                                                 | 12 V              | C 5 W             | PMMA / PC<br>klar - clear             | Flachsteckungen<br>blade terminals | 0,03 kg           |                          | 50<br>E/180 | E1 21673                 |
|  | <b>11.1001.001</b><br>PLR 130 | Begrenzungsleuchte<br>Front Marker Light | integrierter Rückst.<br>integrated reflex refl. | 12 V              | C 5 W             | PMMA / PC<br>klar - clear             | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 50<br>E/200 | E1 0221653<br>E1 0221339 |

## BEGRENZUNGSLEUCHE PL/PLR 550 \* FRONT MARKER LIGHT PL/PLR 550



- Für den Anbaubereich 20°± 10°
- Glühlampe in Soffittenform

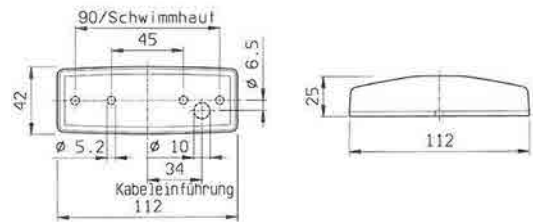
- for inclined surfaces of 20°± 10°
- festoon-type bulb

| Bild<br>Picture                                                                    | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description              | Merkmale<br>Features                            | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour  | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval       |
|------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|-------------------------------------------------|-------------------|-------------------|----------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------------|
|  | <b>11.1004.531</b><br>PLR 550-25 | Begrenzungsleuchte<br>Front Marker Light | integrierter Rückst.<br>integrated reflex refl. | 12 V              | C 5 W             | PMMA / ABS<br>klar-clear/schwarz-black | Flachsteckungen<br>blade terminals | 0,07 kg           |                          | 20       | E1 21672 *<br>IAE10131310* |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

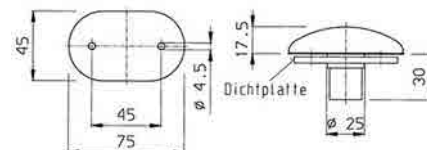
|                                                                                    |                                  |                                          |  |      |       |                                        |                                    |         |  |    |            |
|------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|--|------|-------|----------------------------------------|------------------------------------|---------|--|----|------------|
|  | <b>13.5009.541</b><br>PL 550-20  | Begrenzungsleuchte<br>Front Marker Light |  | 12 V | C 5 W | PMMA / ABS<br>klar-clear/schwarz-black | Flachsteckungen<br>blade terminals | 0,06 kg |  | 10 | E1-21673 * |
|                                                                                    | <b>13.5009.401</b><br>PL 550-20w | Begrenzungsleuchte<br>Front Marker Light |  | 12 V | C 5 W | PMMA / ABS<br>klar-clear/weiss-white   | Flachsteckungen<br>blade terminals | 0,06 kg |  | 10 | E1-21673 * |
|                                                                                    | <b>13.5009.501</b><br>PL 550-20  | Begrenzungsleuchte<br>Front Marker Light |  | 12 V | C 5 W | PMMA / ABS<br>klar-clear/silber-silver | Flachsteckungen<br>blade terminals | 0,06 kg |  | 10 | E1-21673 * |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

**BEGRENZUNGSLEUCHE PLR 1007 \* FRONT MARKER LIGHT PLR 1007**


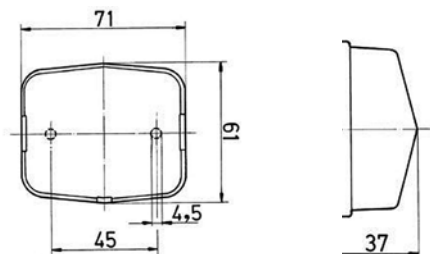
- Aufbau-Montage
- Mit integriertem Rückstrahler
- Glassockellampe montiert
- *surface mounting*
- *with integrated reflex reflector*
- *glass-base bulb fitted*

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description              | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval     |
|-----------------------------------------------------------------------------------|--------------------------------|------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|--------------------------|
|  | <b>11.1007.001</b><br>PLR 1007 | Begrenzungsleuchte<br>Front Marker Light |                      | 12 V              | W 5 W             | PMMA / ABC<br>klar - clear            | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 20       | E3-0253608<br>E3-0254153 |

**BEGRENZUNGSLEUCHE PL 2000 \* FRONT MARKER LIGHT PL 2000**


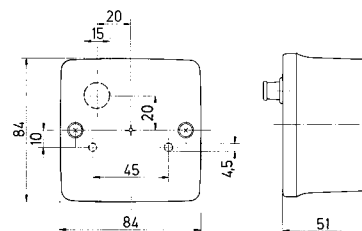
- Aufbau-Montage
- Glassockellampe montiert
- *surface mounting*
- *glass-base bulb fitted*

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description              | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------|------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.5005.000</b><br>PL 2000 | Begrenzungsleuchte<br>Front Marker Light |                      | 12 V              | W 5 W             | PMMA / PC<br>klar - clear             | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 50       | E1-02994             |

**BEGRENZUNGSLEUCHE PL 115 \* FRONT MARKER LIGHT PL 115**


| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description              | Merkmale<br>Features                   | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------|------------------------------------------|----------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.5004.200</b><br>PL 115 | Begrenzungsleuchte<br>Front Marker Light | für den Aufbau<br>for surface mounting | 12 V              | C 5 W             | PMMA / ABS<br>klar - clear            | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 20       | E1-21643 *           |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

**BEGRENZUNGSLEUCHE PL 3009 \* FRONT MARKER LIGHT PL 3009**


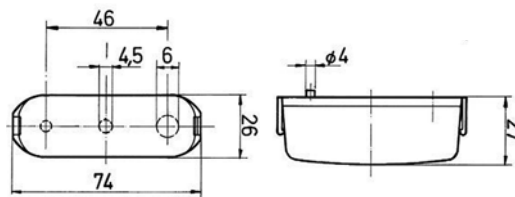
- Aufbau-Montage
- Begrenzungsleuchte oder Umrissleuchte
- Mit Glühlampe
- *surface mounting*
- *front marker light or end-outline marker light*
- *with bulb*

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description              | Merkmale<br>Features                      | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------|------------------------------------------|-------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.5019.000</b><br>PL 3009 | Begrenzungsleuchte<br>Front Marker Light | auch Umrissleuchte<br>also Outline Marker | 12 V              | R 5 W             | PMMA / PA<br>klar - clear             | Flachsteckungen<br>blade terminals | 0,12 kg           |                          | 10       | E1-0121694 *         |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals



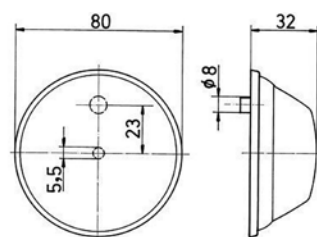
## BEGRENZUNGSLEUCHE PL 96 \* FRONT MARKER LIGHT PL 96



| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description              | Merkmale<br>Features                   | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection              | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|-------------------------------|------------------------------------------|----------------------------------------|-------------------|-------------------|---------------------------------------|--------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.5002.001</b><br>PL 96 s | Begrenzungsleuchte<br>Front Marker Light | für den Aufbau<br>for surface mounting | 12 V              | C 5 W             | PC / PC<br>klar - clear               | Schraubanschlüsse<br>screw terminals | 0,02 kg           |                          | 50       | E1-21617 *           |

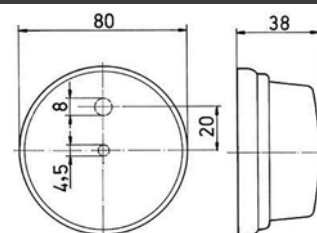
\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

## BEGRENZUNGSLEUCHE PL 192 \* FRONT MARKER LIGHT PL 192



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description              | Merkmale<br>Features                   | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection              | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------|------------------------------------------|----------------------------------------|-------------------|-------------------|---------------------------------------|--------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>13.5006.000</b><br>PL 192 | Begrenzungsleuchte<br>Front Marker Light | für den Aufbau<br>for surface mounting | 12 V              | C 5 W             | PMMA<br>klar - clear                  | Schraubanschlüsse<br>screw terminals | 0,06 kg           |                          | 50       | E1-11764 *           |

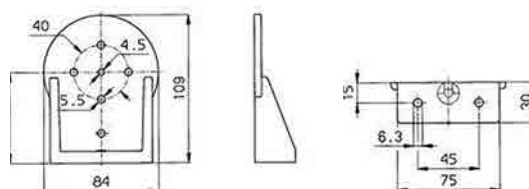
## BEGRENZUNGSLEUCHE PLR 272 \* FRONT MARKER LIGHT PLR 272



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description              | Merkmale<br>Features                      | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval     |
|-------------------------------------------------------------------------------------|-------------------------------|------------------------------------------|-------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|--------------------------|
|  | <b>11.1003.000</b><br>PLR 272 | Begrenzungsleuchte<br>Front Marker Light | integrierter Rückst.<br>integrated reflex | 12-24 V           | C 5 W             | PMMA / ABS<br>klar - clear            | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 10       | E1-0221633<br>E1-0221378 |
|  | <b>13.5008.000</b><br>PL 272  | Begrenzungsleuchte<br>Front Marker Light | für den Aufbau<br>for surface mounting    | 12 V              | C 5 W             | PMMA / ABS<br>klar - clear            | Flachsteckungen<br>blade terminals | 0,06 kg           |                          | 10       | E1-21625                 |

## Zubehör / Ersatzteile \* Accessories / Spare parts

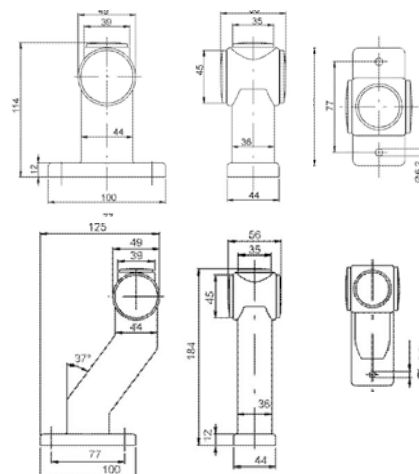
|                                                                                     |                                 |                                        |  |  |  |                      |  |         |  |    |                            |
|-------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|--|--|--|----------------------|--|---------|--|----|----------------------------|
|  | <b>19.1028.000</b><br>E/PLR 272 | Ersatzlichtscheibe<br>Replacement Lens |  |  |  | PMMA<br>klar - clear |  | 0,03 kg |  | 20 | E1-0221633<br>IAE1-0221378 |
|-------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|--|--|--|----------------------|--|---------|--|----|----------------------------|



|                                                                                     |                               |                  |                          |  |  |                        |  |         |  |    |  |
|-------------------------------------------------------------------------------------|-------------------------------|------------------|--------------------------|--|--|------------------------|--|---------|--|----|--|
|  | <b>19.2011.001</b><br>WHL 272 | Halter<br>Holder | 11.1003.000, 13.5008.000 |  |  | TPU<br>schwarz - black |  | 0,08 kg |  | 50 |  |
|-------------------------------------------------------------------------------------|-------------------------------|------------------|--------------------------|--|--|------------------------|--|---------|--|----|--|

## LED-UMRISSLEUCHTE SPL 2020 G/ W \* LED END-OUTLINE MARKER LIGHT SPL 2020 G/ W

Die LED-Umrissleuchten mit integrierter Seitenmarkierungsleuchte der Serie 2020-G + W sind für den Einsatzbereich von 9-32 V konzipiert worden.  
The LED-end-outline-lights with integrated side-marker-lights of the 2020-G + W series have been developed for use with 9-32 V.

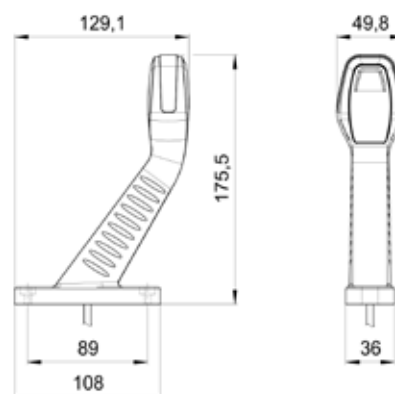


- Varianten mit Flachkabel auf Anfrage lieferbar
- Wasserdicht vergossen und anschlussfertig
- SPL 2020-G auch ohne Seitenmarkierungsfunktion verfügbar

- variants with flat cable on request available
- sealed in a waterproofed manner and ready for plug-in
- SPL 2020-G also available without sidemarker function

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                                                                        | Merkmale<br>Features                            | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>12.0017.000</b><br>SPL 2020 G    | LED-Umrissleuchte<br>LED End-Outline Marker Light                                                  | BL BR S W SN R PL SM<br>DI ST TL RV FL RR PL SM | 9-32 V            | 0,5 W             | PMMA / ABS<br>rot-klar / red-clear    | Kabel 330 mm<br>cable 330 mm | 0,20 kg           | IP 67                    | 10       | E2-08101             |
|                 | <b>12.0017.025</b><br>SPL 2020 G    | LED-Umrissleuchte<br>LED End-Outline Marker Light                                                  | BL BR S W SN R PL SM<br>DI ST TL RV FL RR PL SM | 9-32 V            | 0,5 W             | PMMA / ABS<br>rot-klar / red-clear    | Kabel 330 mm<br>cable 330 mm | 0,28 kg           | IP 67                    | 10       | E2-08101             |
|                 |                                     | Zusatz-Information:<br>Additional Information: ohne Seitenmarkierungsleuchte<br>without sidemarker |                                                 |                   |                   |                                       |                              |                   |                          |          |                      |
|                 | <b>12.0017.300</b><br>SPL 2020 W LH | LED-Umrissleuchte<br>LED End-Outline Marker Light                                                  | BL BR S W SN R PL SM<br>DI ST TL RV FL RR PL SM | 9-32 V            | 0,5 W             | PMMA / ABS<br>rot-klar / red-clear    | Kabel 250 mm<br>cable 250 mm | 0,28 kg           | IP 67                    | 10       | E2-08101             |
|                 | <b>12.0017.600</b><br>SPL 2020 W RH | LED-Umrissleuchte<br>LED End-Outline Marker Light                                                  | BL BR S W SN R PL SM<br>DI ST TL RV FL RR PL SM | 9-32 V            | 0,5 W             | PMMA / ABS<br>rot-klar / red-clear    | Kabel 250 mm<br>cable 250 mm | 0,28 kg           | IP 67                    | 10       | E2-08101             |

## LED-UMRISSLEUCHTE SPL 2025\* LED END-OUTLINE MARKER LIGHT SPL 2025



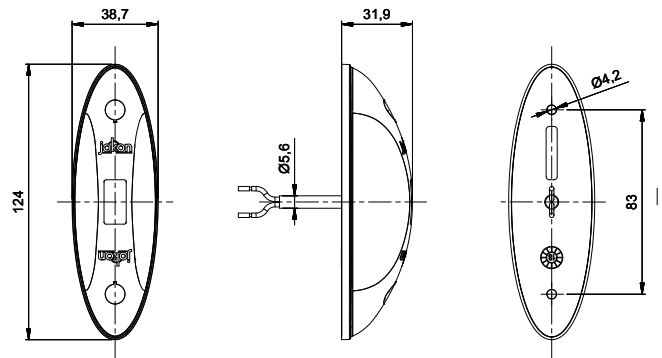
- LED-Umrissleuchte mit Seitenmarkierungsleuchte (SML)
- Wasserdicht vergossen und anschlussfertig
- Flexibler Anbauarm 90°

- LED End-Outline Marker Light with Side Marker Light (SML)
- sealed in a waterproofed manner and ready for plug-in
- flexible bracket 90°

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                          | Merkmale<br>Features                            | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-----------------------------------|------------------------------------------------------|-------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>12.0020.300</b><br>SPL 2025 LH | LED-Umrissleuchte m. SML<br>LED Front / Marker Light | BL BR S W SN R PL SM<br>DI ST TL RV FL RR PL SM | 9-32 V            | 1,8 W             | PC / PC                               | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | -20/+50°C<br>IP 67       | 20       | E13-35831            |
|                 | <b>12.0020.600</b><br>SPL 2025 RH | LED-Umrissleuchte m. SML<br>LED Front / Marker Light | BL BR S W SN R PL SM<br>DI ST TL RV FL RR PL SM | 9-32 V            | 1,8 W             | PC / PC                               | Kabel 500 mm<br>cable 500 mm | 0,16 kg           | -20/+50°C<br>IP 67       | 20       | E13-35831            |

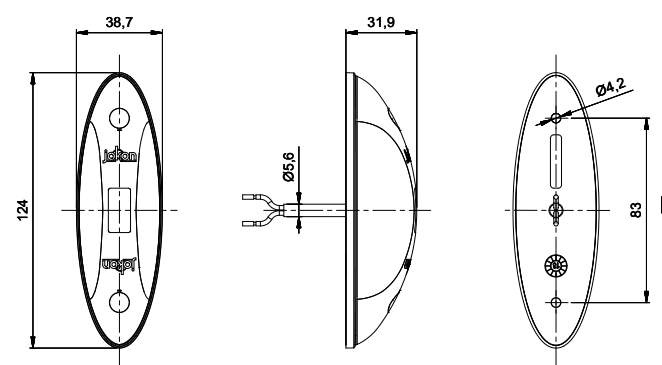
## LED-UMRISSLEUCHTE SPL 2016 \* LED END-OUTLINE MARKER LIGHT SPL 2016

Die LED-Umrissleuchten SPL 2016 werden in einer 24 V Version angeboten, verfügen über je 2 LEDs je Funktion und dürfen im Bereich von 0-15° angebaut werden.  
*The LED end-outline-marker lights SPL 2016 are offered in a 24 V version, have 2 LEDs per function and may be mounted in the range of 0-15°.*



| <ul style="list-style-type: none"> <li>· Aufbaumontage</li> <li>· Gehäuse schwarz</li> <li>· Wasserdicht vergossen und anschlussfertig</li> </ul>                                   |                                    |                                                          |                                           |                   |                   |                                             |                                    |                   |                          |          |                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------|-------------------------------------------|-------------------|-------------------|---------------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
| <ul style="list-style-type: none"> <li>· <i>surface mounting</i></li> <li>· <i>black housing</i></li> <li>· <i>sealed in a waterproofed manner and ready for plug-in</i></li> </ul> |                                    |                                                          |                                           |                   |                   |                                             |                                    |                   |                          |          |                      |
| Bild<br>Picture                                                                                                                                                                     | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                              | Merkmale<br>Features                      | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour       | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|                                                                                                    | <b>12.0018.600</b><br>SPL 2016/24V | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 24 V              | 1 W               | PMMA / ABS<br>rot, klar - <i>red, clear</i> | Kabel 300 mm<br><i>cabl 300 mm</i> | 0,07 kg           | <i>IP 67</i>             | 50       | E1-3688              |
| Zusatz-Information:<br><i>Additional Information:</i>                                                                                                                               |                                    |                                                          | Gehäuse schwarz<br><i>black housing</i>   |                   |                   |                                             |                                    |                   |                          |          |                      |

## LED-UMRISSLEUCHTE SPL 2011 \* LED END-OUTLINE MARKER LIGHT SPL 2011

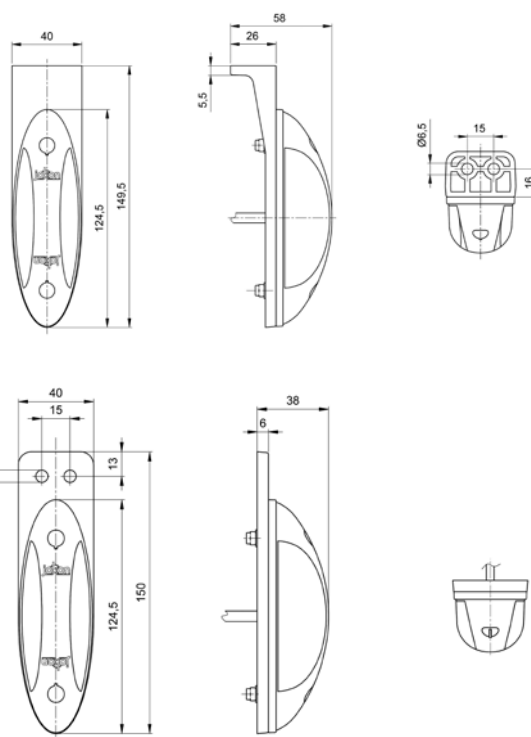


| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type          | Beschreibung<br>Description                              | Merkmale<br>Features                      | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour       | Anschluss<br>Connection              | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------------------------|-------------------------------------------|-------------------|-------------------|---------------------------------------------|--------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>12.0014.000</b><br>SPL 2011s/12V   | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 12 V              | 1 W               | PMMA / ABS<br>rot, klar - <i>red, clear</i> | Kabel 500 mm<br><i>cabl 500 mm</i>   | 0,07 kg           | IP 67                    | 20       | E2-06078             |
|                                                                                     | <b>12.0015.000</b><br>SPL 2011s/24V   | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 24 V              | 1 W               | PMMA / ABS<br>rot, klar - <i>red, clear</i> | Kabel 500 mm<br><i>cabl 500 mm</i>   | 0,07 kg           | IP 67                    | 20       | E2-06078             |
|                                                                                     | <b>12.0016.000</b><br>SPL 2011s/9-32V | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 9 - 32 V          | 1 W               | PMMA / ABS<br>rot, klar - <i>red, clear</i> | Kabel 500 mm<br><i>cabl 500 mm</i>   | 0,07 kg           | IP 67                    | 10       | E2-06078             |
| Zusatz-Information:<br><i>Additional Information:</i>                               |                                       |                                                          | Gehäuse schwarz<br><i>black housing</i>   |                   |                   |                                             |                                      |                   |                          |          |                      |
|  | <b>12.0014.020</b><br>SPL 2011w/12V   | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 12 V              | 1 W               | PMMA / ABS<br>rot, klar - <i>red, clear</i> | Kabel 2000 mm<br><i>cabl 2000 mm</i> | 0,07 kg           | IP 67                    | 20       | E2-06078             |
|                                                                                     | <b>12.0015.200</b><br>SPL 2011w/24V   | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 24 V              | 1 W               | PMMA / ABS<br>rot, klar - <i>red, clear</i> | Kabel 500 mm<br><i>cabl 500 mm</i>   | 0,07 kg           | IP 67                    | 20       | E2-06078             |
| Zusatz-Information:<br><i>Additional Information:</i>                               |                                       |                                                          | Gehäuse weiss<br><i>white housing</i>     |                   |                   |                                             |                                      |                   |                          |          |                      |
|  | <b>12.0014.300</b><br>SPL 2011g/12V   | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 12 V              | 1 W               | PMMA / ABS<br>rot, klar - <i>red, clear</i> | Kabel 500 mm<br><i>cabl 500 mm</i>   | 0,07 kg           | IP 67                    | 20       | E2-06078             |
|                                                                                     | <b>12.0015.300</b><br>SPL 2011g/24V   | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 24 V              | 1 W               | PMMA / ABS<br>rot, klar - <i>red, clear</i> | Kabel 500 mm<br><i>cabl 500 mm</i>   | 0,07 kg           | IP 67                    | 20       | E2-06078             |
| Zusatz-Information:<br><i>Additional Information:</i>                               |                                       |                                                          | Gehäuse grau<br><i>grey housing</i>       |                   |                   |                                             |                                      |                   |                          |          |                      |

## LED-UMRISSLEUCHTE SPL 2011 \* LED END-OUTLINE MARKER LIGHT SPL 2011

Die LED-Umrissleuchten SPL 2011 werden in 12 V, 24V und 12/24V Varianten angeboten, verfügen über jeweils 500 mm Anschlusskabel. 12/24 V Varianten werden auch in Ausführungen mit Pendel oder Winkelpendel angeboten.

The LED-end-outline-marker-lights SPL 2011 are offered in 12 V, 24 V and 12/24 V versions, each have 500 mm connection cable. Further variants are available with pendulum or angular pendulum.



- Aufbaumontage
- Gehäusevarianten in schwarz, grau oder weiß erhältlich
- Wasserdicht vergossen und anschlussfertig

- surface mounting
- housing variants available in black, grey or white
- sealed in a waterproofed manner and ready for plug-in

|  |                                            |                                                          |                                           |          |     |                                      |                                     |         |       |    |          |
|--|--------------------------------------------|----------------------------------------------------------|-------------------------------------------|----------|-----|--------------------------------------|-------------------------------------|---------|-------|----|----------|
|  | <b>12.0016.600</b><br>SPL 2011s/9-32V WPLH | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 9 - 32 V | 1 W | PMMA / ABS<br>rot, klar - red, clear | Kabel 500 mm<br><i>cable 500 mm</i> | 0,11 kg | IP 67 | 10 | E2-06078 |
|  | <b>12.0016.800</b><br>SPL 2011s/9-32V WPRH | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 9 - 32 V | 1 W | PMMA / ABS<br>rot, klar - red, clear | Kabel 500 mm<br><i>cable 500 mm</i> | 0,11 kg | IP 67 | 10 | E2-06078 |

Zusatz-Information:  
Additional Information:

Gehäuse schwarz / mit elastischem Winkelpendel  
black housing / with elastic angle support

|  |                                            |                                                          |                                           |          |     |                                      |                                     |         |       |    |          |
|--|--------------------------------------------|----------------------------------------------------------|-------------------------------------------|----------|-----|--------------------------------------|-------------------------------------|---------|-------|----|----------|
|  | <b>12.0016.200</b><br>SPL 2011s/9-32V P LH | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 9 - 32 V | 1 W | PMMA / ABS<br>rot, klar - red, clear | Kabel 500 mm<br><i>cable 500 mm</i> | 0,11 kg | IP 67 | 10 | E2-06078 |
|  | <b>12.0016.400</b><br>SPL 2011s/9-32V P RH | LED-Umrissleuchte<br><i>LED End-Outline Marker Light</i> | Aufbau-Montage<br><i>surface mounting</i> | 9 - 32 V | 1 W | PMMA / ABS<br>rot, klar - red, clear | Kabel 500 mm<br><i>cable 500 mm</i> | 0,11 kg | IP 67 | 10 | E2-06078 |

Zusatz-Information:  
Additional Information:

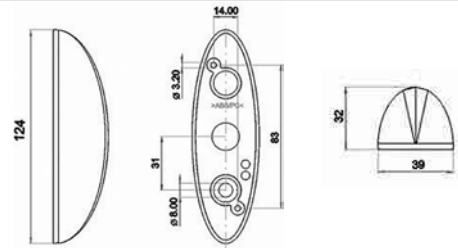
Gehäuse schwarz / mit elastischem Pendel  
black housing / with elastic support



## UMRISSLEUCHTE SPL 2010 \* END-OUTLINE MARKER LIGHT SPL 2010

Die Umrissleuchten L 2010 sind in diversen Varianten erhältlich. Weiße oder graue Leuchtenböden, Ausführungen mit grauen, weißen oder verspiegelten Abdeckkappen zur Verdeckung der Anschlusskabel ermöglichen diverse Leuchtenkonfigurationen.

L 2010 end-outline-marker-lights are available in various versions. White or grey luminaire bases and versions with grey, white or mirrored cover caps for concealing the connection cables enable several configurations of the lights.



· Aufbaumontage

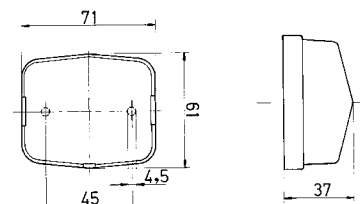
· Varianten mit Kabelöffnung oben oder unten erhältlich

· surface mounting

· variants available with cable opening at the top or bottom

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description               | Merkmale<br>Features                                                          | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour     | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------|-------------------------------------------------------------------------------|-------------------|-------------------|-------------------------------------------|------------------------------------|-------------------|--------------------------|------------|----------------------|
|    | <b>12.0013.000</b><br>SPL 2010 | Umrissleuchte<br>End-Outline Marker Light | Kabelöffnung unten<br>cable hole bottom                                       | 12-24 V           | C 5 W             | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 30<br>E/72 | E9-1299              |
|                                                                                     | <b>12.0013.010</b><br>SPL 2010 | Umrissleuchte<br>End-Outline Marker Light | Kabelöffnung oben<br>cable hole top                                           | 12-24 V           | C 5 W             | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 10         | E9-1299              |
| Zusatz-Information:<br>Additional Information:                                      |                                |                                           | Boden grau<br>grey base                                                       |                   |                   |                                           |                                    |                   |                          |            |                      |
|    | <b>12.0013.020</b><br>SPL 2010 | Umrissleuchte<br>End-Outline Marker Light | Kabelöffnung unten<br>cable hole bottom                                       | 12-24 V           | C 5 W             | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 30<br>E/72 | E9-1299              |
|                                                                                     | <b>12.0013.030</b><br>SPL 2010 | Umrissleuchte<br>End-Outline Marker Light | Kabelöffnung oben<br>cable hole top                                           | 12-24 V           | C 5 W             | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 30         | E9-1299              |
| Zusatz-Information:<br>Additional Information:                                      |                                |                                           | Boden weiss / Abdeckung weiss<br>white base / white cover                     |                   |                   |                                           |                                    |                   |                          |            |                      |
|  | <b>12.0013.040</b><br>SPL 2010 | Umrissleuchte<br>End-Outline Marker Light | Kabelöffnung unten<br>cable hole bottom                                       | 12-24 V           | C 5 W             | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 30         | E9-1299              |
|                                                                                     |                                |                                           |                                                                               |                   |                   |                                           |                                    |                   |                          |            |                      |
| Zusatz-Information:<br>Additional Information:                                      |                                |                                           | Boden grau, mit Abdeckung grau<br>grey base with grey frame                   |                   |                   |                                           |                                    |                   |                          |            |                      |
|  | <b>12.0013.050</b><br>SPL 2010 | Umrissleuchte<br>End-Outline Marker Light | Kabelöffnung unten<br>cable hole bottom                                       | 12-24 V           | C 5 W             | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 30         | E9-1299              |
|                                                                                     |                                |                                           |                                                                               |                   |                   |                                           |                                    |                   |                          |            |                      |
| Zusatz-Information:<br>Additional Information:                                      |                                |                                           | Boden weiss / mit Abdeckung verspiegelt<br>white base / with metallized cover |                   |                   |                                           |                                    |                   |                          |            |                      |
|  | <b>12.0013.060</b><br>SPL 2010 | Umrissleuchte<br>End-Outline Marker Light | Kabelöffnung unten<br>cable hole bottom                                       | 12-24 V           | C 5 W             | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 30         | E9-1299              |
|                                                                                     |                                |                                           |                                                                               |                   |                   |                                           |                                    |                   |                          |            |                      |
| Zusatz-Information:<br>Additional Information:                                      |                                |                                           | Boden grau / mit Abdeckung verspiegelt<br>grey base / with metallized cover   |                   |                   |                                           |                                    |                   |                          |            |                      |

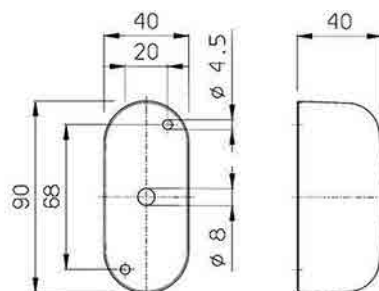
## UMRISSLEUCHTE SPL 115 \* END-OUTLINE MARKER LIGHT SPL 115



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description               | Merkmale<br>Features               | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------|------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>12.0003.200</b><br>SPL 115 | Umrissleuchte<br>End-Outline Marker Light | Aufbau-Montage<br>surface mounting | 12 V              | C 5 W             | SAN / ABS<br>rot, klar - red, clear   | Flachsteckungen<br>blade terminals | 0,04 kg           |                          | 20       | E1-11598             |

## UMRISSLEUCHTE SPL 2000 \* END-OUTLINE MARKER LIGHT SPL 2000

Die Umrissleuchten L 2000 sind mit flachem oder erhöhtem Leuchtenboden (falls die Kederleiste den Lichtaustritt beeinträchtigt) erhältlich.  
 L 2000 end-outline-marker-lights are available with flat or raised luminaire base (if the keder strip interferes with light emission).

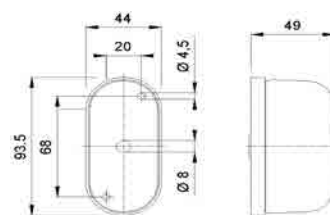


- Aufbaumontage
- Variante mit Dekomaske
- Variante mit erhöhtem Leuchtenboden erhältlich

- surface mounting
- variant available with decorative mask
- variant with raised lamp base available

| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description               | Merkmale<br>Features               | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour     | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|--------------------------------|-------------------------------------------|------------------------------------|-------------------|-------------------|-------------------------------------------|------------------------------------|-------------------|--------------------------|------------|----------------------|
|  | <b>12.0012.000</b><br>SPL 2000 | Umrissleuchte<br>End-Outline Marker Light | Aufbau-Montage<br>surface mounting | 12-24 V           | R 5 W             | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 20<br>E/90 | E1-021023            |

## UMRISSLEUCHTE SPL 2000 A \* END-OUTLINE MARKER LIGHT SPL 2000 A

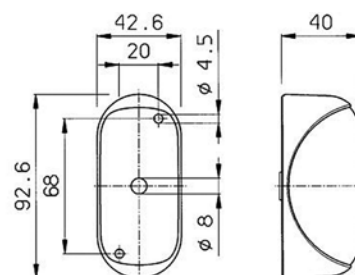


| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description               | Merkmale<br>Features               | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour     | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------|------------------------------------|-------------------|-------------------|-------------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>12.0012.030</b><br>SPL 2000-A | Umrissleuchte<br>End-Outline Marker Light | Aufbau-Montage<br>surface mounting | 12-24 V           | R 5 W             | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 20       | E1-021023            |

Zusatz-Information:  
Additional Information:

mit schwarzem Abstandssockel / Weitere Sockelfarben auf Anfrage  
 with black distance base / Further colours of distance base on request

## UMRISSLEUCHTE SPL 2000 mit MASKE \* END-OUTLINE MARKER LIGHT SPL 2000 with MASK

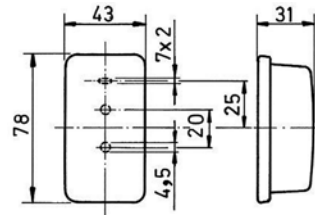


| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description               | Merkmale<br>Features               | Spann.<br>Voltage | Glühl. / Leist.<br>Bulb / Power | Material / Farbe<br>Material / Colour     | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-----------------------------------|-------------------------------------------|------------------------------------|-------------------|---------------------------------|-------------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>12.0012.050</b><br>SPL 2000-MS | Umrissleuchte<br>End-Outline Marker Light | Aufbau-Montage<br>surface mounting | 12-24 V           | R 5 W                           | PMMA / ABS - PC<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,06 kg           |                          | 20       | E1-021023            |

Zusatz-Information:  
Additional Information:

mit schwarzer Maske  
 with black mask

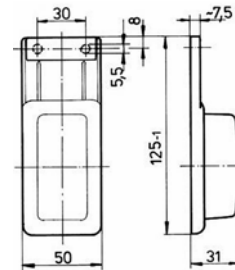
## UMRISSLEUCHTE SPL 39 \* END-OUTLINE MARKER LIGHT SPL 39



| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                | Merkmale<br>Features               | Spann.<br>Voltage | Glühl. / Leist.<br>Bulb / Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection             | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|------------------------------|--------------------------------------------|------------------------------------|-------------------|---------------------------------|---------------------------------------|-------------------------------------|-------------------|--------------------------|-------------|----------------------|
|  | <b>12.0001.000</b><br>SPL 39 | Umrisssleuchte<br>End-Outline Marker Light | Aufbau-Montage<br>surface mounting | 12 V              | R 5 W                           | SAN / PC<br>rot, klar - red, clear    | Schraubanschluss<br>screw terminals | 0,02 kg           |                          | 20<br>E/180 | E1-21403 *           |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

## UMRISSLEUCHTE SPL 39-P \* END-OUTLINE MARKER LIGHT SPL 39-P



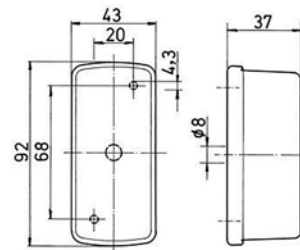
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                | Merkmale<br>Features               | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection             | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------|------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------------------|-------------------|--------------------------|------------|----------------------|
|  | <b>12.0001.100</b><br>SPL 39-P m.P. | Umrisssleuchte<br>End-Outline Marker Light | Aufbau-Montage<br>surface mounting | 12 V              | R 5 W             | SAN / PC<br>rot, klar - red, clear    | Schraubanschluss<br>screw terminals | 0,02 kg           |                          | 20<br>E/50 | E1-21403 *           |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

## Zubehör / Ersatzteile \* Accessories / Spare parts

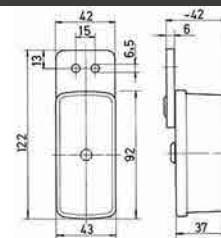
|  |                                |                                        |  |  |  |                               |  |         |  |             |            |
|--|--------------------------------|----------------------------------------|--|--|--|-------------------------------|--|---------|--|-------------|------------|
|  | <b>19.1001.001</b><br>E/SPL 39 | Ersatzlichtscheibe<br>Replacement Lens |  |  |  | SAN<br>rot, klar - red, clear |  | 0,01 kg |  | 50<br>E/180 | E1-21403 * |
|--|--------------------------------|----------------------------------------|--|--|--|-------------------------------|--|---------|--|-------------|------------|

## UMRISSLEUCHTE SPL 07 \* END-OUTLINE MARKER LIGHT SPL 07



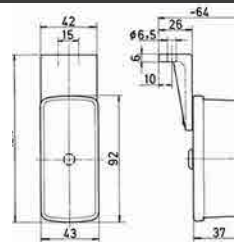
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description                | Merkmale<br>Features               | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------|------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|-------------|----------------------|
|  | <b>12.0007.000</b><br>SPL 07 r/w | Umrisssleuchte<br>End-Outline Marker Light | Aufbau-Montage<br>surface mounting | 12 V              | R 5 W             | PMMA / PC<br>rot, klar - red, clear   | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 20<br>E/180 | E1-0231426           |

## UMRISSLEUCHTE SPL 07 \* END-OUTLINE MARKER LIGHT SPL 07



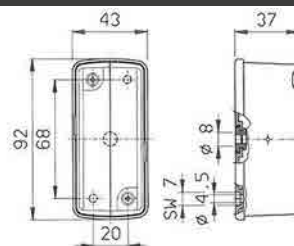
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type          | Beschreibung<br>Description                | Merkmale<br>Features               | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour     | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------|------------------------------------|-------------------|-------------------|-------------------------------------------|------------------------------------|-------------------|--------------------------|------------|----------------------|
|  | <b>12.0007.010</b><br>SPL 07 r/w m.P. | Umrisssleuchte<br>End-Outline Marker Light | Aufbau-Montage<br>surface mounting | 12 V              | R 5 W             | PMMA - PC / TPU<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 20<br>E/40 | E1-0231426           |

## UMRISSLEUCHTE SPL 07 \* END-OUTLINE MARKER LIGHT SPL 07



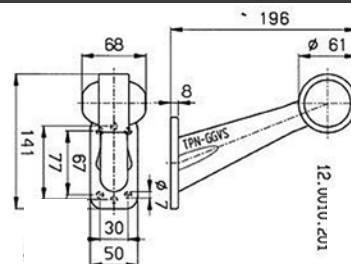
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type           | Beschreibung<br>Description               | Merkmale<br>Features               | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour     | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU   | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|----------------------------------------|-------------------------------------------|------------------------------------|-------------------|-------------------|-------------------------------------------|------------------------------------|-------------------|--------------------------|------------|----------------------|
|  | <b>12.0007.020</b><br>SPL 07 r/w m.WP. | Umrissleuchte<br>End-Outline Marker Light | Aufbau-Montage<br>surface mounting | 12 V              | R 5 W             | PMMA - PC / TPU<br>rot, klar - red, clear | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 20<br>E/40 | E1-0231426           |

## UMRISSLEUCHTE SPL 09 \* END-OUTLINE MARKER LIGHT SPL 09



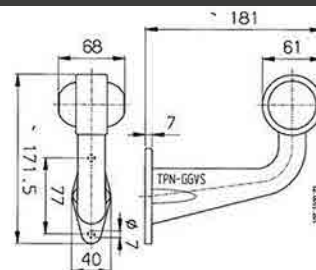
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description               | Merkmale<br>Features               | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU    | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|------------------------------|-------------------------------------------|------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|-------------|----------------------|
|  | <b>12.0009.000</b><br>SPL 09 | Umrissleuchte<br>End-Outline Marker Light | Aufbau-Montage<br>surface mounting | 12-24 V           | R 5 W             | PMMA / PC<br>rot, klar - red, clear   | Flachsteckungen<br>blade terminals | 0,05 kg           |                          | 20<br>E/180 | E1-0231426           |

## UMRISSLEUCHTE SPL 10 \* END-OUTLINE MARKER LIGHT SPL 10



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description               | Merkmale<br>Features                   | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------|-------------------------------------------|----------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>12.0010.201</b><br>SPL 10 | Umrissleuchte<br>End-Outline Marker Light | flexibler Anbauarm<br>flexible bracket | 12-24 V           | R 5 W             | PMMA / TPU<br>rot, klar - red, clear  | Flachsteckungen<br>blade terminals | 0,23 kg           |                          | 20       | E3-0253275           |

## UMRISSLEUCHTE SPL 11 \* END-OUTLINE MARKER LIGHT SPL 11



| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description               | Merkmale<br>Features                   | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection            | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------|-------------------------------------------|----------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>12.0011.201</b><br>SPL 11 | Umrissleuchte<br>End-Outline Marker Light | flexibler Anbauarm<br>flexible bracket | 12-24 V           | R 5 W             | PMMA / TPU<br>rot, klar - red, clear  | Flachsteckungen<br>blade terminals | 0,23 kg           |                          | 20       | E3-0253275           |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|                                    |                                        |  |  |  |  |                      |  |         |  |    |            |
|------------------------------------|----------------------------------------|--|--|--|--|----------------------|--|---------|--|----|------------|
| <b>19.1088.000</b><br>E/S 10 + 11  | Ersatzlichtscheibe<br>Replacement Lens |  |  |  |  | PMMA<br>rot - red    |  | 0,01 kg |  | 10 | E3-0253275 |
| <b>19.1089.000</b><br>E/PL 10 + 11 | Ersatzlichtscheibe<br>Replacement Lens |  |  |  |  | PMMA<br>klar - clear |  | 0,01 kg |  | 10 | E3-0253275 |



# VORZELT-/ VORFELDLEUCHTEN AWNING PREFIELD LIGHTS



LED-VORZELT-/VORFELD- / AMBIENTELEUCHTUNG WW 350 \* LED AWNING / PREFIELD / AMBIENT LIGHT WW 350

Designorientierte LED-Vorzeltleuchte mit zusätzlicher Ambientebeleuchtung (nach oben gerichtet). 30 LED's für die Vorzeltbeleuchtung und 18 LED's für die Ambientefunktion im Farbton neutralweiß erzeugen in Verbindung mit der homogenen Auslegung der leuchtenden Flächen eine behagliche Beleuchtung. Die technisch hochwertige Ausführung dieser innovativen Leuchte wird auf Wunsch durch individuell / exklusiv wählbare Farbvarianten ergänzt.

*Design-oriented LED awning light with additional ambient lighting (upwards light output). 30 LEDs for the awning lighting and 18 LEDs for the ambience function in neutral white, combined with the homogeneous design of the illuminated surfaces, create a comfortable lighting. The technically high-quality design of this innovative awning-light is complemented by individually/exclusively selectable colour variants on request.*



- Lichtstrom Vorzelt ca. 315 Lumen, Ambiente ca. 100 Lumen
- Farbtemperatur neutralweiß (ca. 3800 K)
- Inkl. verdeckter Membran für thermodynamischen Ausgleich

- luminous flux awning light approx. 315 Lumen, ambient approx. 100 Lumen
- colour temperature neutral white (approx. 3800 K)
- incl. concealed membrane for thermodynamic balance

| Bild<br>Picture                                                                  | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description                                | Merkmale<br>Features                           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|----------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------|------------------------------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>14.1022.000</b><br>WW 350/12V | LED Vorzelt-/Vorfeldleuchte<br>LED Awning / Prefield Light | BL BR S W SN R K WW<br>DI ST TL RV FL RR NP WW | 12 V              | 5 W / 1,2 W       | ASA / PC<br>FIAT weiß/white 249       | Kabel 500 mm<br>cable 500 mm | 0,27 kg           | -20/+50°C<br>IP 67       | 15       |                      |
|                                                                                  | <b>14.1022.100</b><br>WW 350/12V | LED Vorzelt-/Vorfeldleuchte<br>LED Awning / Prefield Light | BL BR S W SN R K WW<br>DI ST TL RV FL RR NP WW | 12 V              | 5 W / 1,2 W       | ASA / PC<br>weiß PW 97B               | Kabel 800 mm<br>cable 800 mm | 0,27 kg           | -20/+50°C<br>IP 67       | 15       |                      |

LED-VORZELT- / VORFELDLEUCHTE WW 250 \* LED AWNING / PREFIELD LIGHT WW 250

Die LED-Leuchten der Serie WW 250 bieten mehr als nur viel Licht: sie überzeugen mit einem exklusiven und eleganten Design, das aber dennoch angenehm dezent ist. Die Lichtverteilung erfolgt äußerst gleichmäßig durch ein rotationssymmetrisches optisches System, so dass nichts im „Dunkeln“ bleibt.

*The WW 250 LED lights offer more than just brightness: they appeal by an exclusive and elegant design which is still pleasantly discreet. The light distribution is extremely even owing to a rotationally symmetrical optical system, so that nothing remains in the „dark“.*

Merkmale \* Features



- Angenehme, gleichmäßige Ausleuchtung  
Farbtemperatur ca. 3800 Kelvin
- pleasant and uniform illumination  
Colour temperature approx. 3800 kelvin



- Keine sichtbaren Schrauben durch lackierbare Abdeckklappe
- no visible screws owing to a paintable cover



- Hochwertige LEDs von Marken-Herstellern
- high-grade LED's from well-known brands

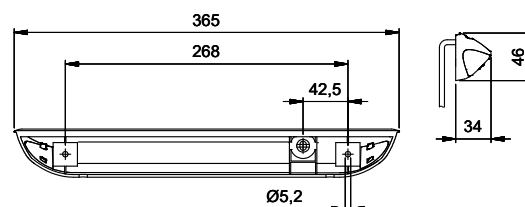


- Stabile Konstruktion
- sturdy design



- Mit Microfaser-Membran für optimalen thermodynamischen Ausgleich
- with microfiber membrane for optimal thermodynamic balance

Technische Daten \* Technical Data



- LED-Vorzelt- / Vorfeldleuchte mit 12 weißen HighPower-LEDs
- Lichtstrom ca. 250 Lumen (entspr. 35W GU10-Halogenlampe)
- Abstrahlung nach vorne: 0...90° / seitlich -45...+45°
- Aufbau-Montage
- Installation rückseitig (M5-Schraube) oder von vorne (ST 4,2)

- LED awning / prefield light with 12 white high-power LED's
- luminous flux approx. 250 Lumen (approx. 35W GU10 halogen bulb)
- beam angle ahead: 0...90° / lateral -45...+45°
- designed for surface mounting
- installation from rear (M5 screw) or front (ST 4,2)

| Bild<br>Picture                                                                    | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                          | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>14.1007.000</b><br>WW 250/12V   | Vorzelt- / Vorfeldleuchte<br>Awning / Prefield Light |                      | 12 V              | 5 W               | ASA - ABS / PC<br>weiß - white        | Kabel 500 mm<br>cable 500 mm | 0,19 kg           | -20/+40°C<br>IP 67       | 15       | CE,                  |
|  | <b>14.1008.000</b><br>WW 250/9-32V | Vorzelt- / Vorfeldleuchte<br>Awning / Prefield Light |                      | 9-32 V            | 5 W               | ASA - ABS / PC<br>weiß - white        | Kabel 500 mm<br>cable 500 mm | 0,19 kg           | -20/+40°C<br>IP 67       | 15       | CE,<br>EMV / EMC     |

LED-VORZELT- / VORFELDLEUCHTE WW 2011 \* LED AWNING / PREFIELD LIGHT WW 2011

Die LED-Leuchten der Serie L 2011 überzeugen mit ihrer äußerst kompakten Bauform. Zwei HighPower-LEDs sorgen in Verbindung mit einer hocheffizienten Schaltregler-Elektronik und einer wärmeableitenden Metallkern-Leiterkarte für eine optimale Lichtausbeute.  
The LED lights of the series L 2011 convince with a very compact design. Two high power LED assure an optimal light output - in combination with a high efficiency switching circuit and a metal core PCB.

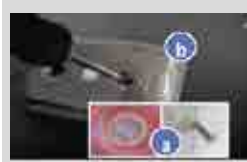
Merkmale \* Features



- Extrem flach, ideal für Aufbau-Installation geeignet
- Extremely flat, suitable for surface mounting



- Hochwertige LEDs von Marken-Herstellern (OSRAM)
- High-grade LEDs from well known brands (OSRAM)



- flexible Befestigung mit M4-Schraube als Stehbolzen (a) oder von vorne (b)
- flexible fixation with M4 as bolt (a) or from the frontside (b)

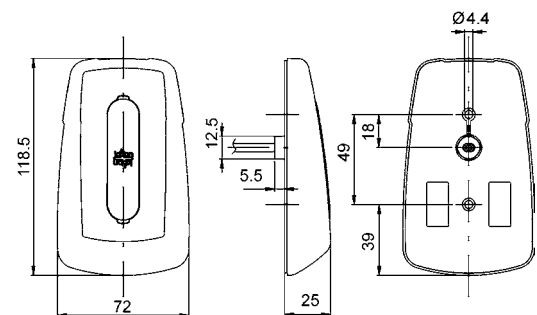


- Einzeldraderabdichtung für maximalen IP-Schutz und Funktionssicherheit
- Single wire insulation for high IP protection class and max. reliability



- Mit Microfaser-Membran für optimalen thermodyn. Ausgleich
- With microfibre membrane for optimal thermodynamic balance

Technische Daten \* Technical Data



- LED-Vorzelt- / Vorfeldleuchte mit 2 weißen HighPower-LEDs
- Lichtstrom ca. 200 Lumen (entspr. 35W GU10-Halogenlampe)
- Abstrahlung nach vorne: 0...60° / seitlich -45...+45°
- Aufbau-Montage
- PMMA-Lichtscheibe, Boden ABS / PC hellgrau
- Mit verchromtem Designteil
- Installation rückseitig (M4-Schraube) oder von vorne (ST3,5)
- Inkl. 300 mm ADR-Mantelkabel 2 x 1,0 mm<sup>2</sup> / 6,3 mm Flachsteckungen
- Inkl. verdeckter Membran für thermodynamischen Ausgleich
- Mit EPDM-Dichtung 1 mm / ST3,5-Schrauben (V2A)

- LED awning / prefield light with 2 white high-power LEDs
- luminous flux approx. 200 Lumen (approx. 35W GU10 halogen bulb)
- beam angle ahead: 0...60° / lateral -45...+45°
- designed for surface mounting
- PMMA lens, housing ABS / PC light grey
- with chrome-plated design part
- installation from rear (M4 screw) or front (ST3.5)
- incl. 300 mm ADR cable 2 x 1.0 mm<sup>2</sup> / 6.3mm blade terminals
- incl. non visible membrane for thermodynamic balance
- with EPDM gasket 1 mm / ST3.5-screws (stainl.)

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                          | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection              | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------|--------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>14.1019.000</b><br>WW 2011/9-32V | Vorzelt- / Vorfeldleuchte<br>Awning / Prefield Light |                      | 9-32 V            | 4 W               | PMMA / ABS-PC<br>klar - clear         | Kabel 300 mm/ADR<br>cable 300 mm/ADR | 0,11 kg           | -20 / +40°C<br>IP 67     | 20       | CE,<br>EMV / EMC     |

## SPEZIELLE FAHRZEUG-LEUCHTEN

### SPECIAL VEHICLE LIGHTS

Wenn Licht für Sicherheit und optimale Arbeitsbedingungen am Fahrzeug sorgen soll: Das JOKON-Programm bietet Ihnen eine große Auswahl hochwertiger Warnleuchten, Arbeitsscheinwerfer und Leuchten für allgemeine Beleuchtungszwecke. Der breite Einsatz der LED-Technik garantiert Ihnen in Ihrem Fahrzeug eine maximale Zuverlässigkeit und Energie-Effizienz.

*If light is required to provide safety and optimum operating conditions on the vehicle: the JOKON range offers you a wide selection of high quality warning lights, working lights and lights for general illumination purposes. Extensive use of LED technology guarantees you maximum reliability and energy efficiency in your vehicle.*







## LED-ARBEITSSCHEINWERFER SERIE „WORK-ON“ \* LED WORKING LIGHT SERIES „WORK-ON“

Die LED-Arbeitsscheinwerferreihe „Work-On“ wurde auf Basis einer bereits im Markt befindlichen Leuchtenfamilie weiterentwickelt. Nach Auswahl der Leuchten wurden alle Komponenten technisch überarbeitet und auf den für ein Jakon-Produkt erforderlichen technischen und qualitativen (Jakon-)Standard angehoben. Selbstverständlich gehören zu diesen Anforderungen u.a. auch die Erfüllung der ECE-R10 Standards zur EMV = Elektro-Magnetische-Verträglichkeit.

The „Work-On“ worklight series was further developed on the basis of a family of lights already on the market. After selection of the lights, all components were technically revised and raised up to the technical and qualitative (Jakon-)standard required for a Jakon product. Of course these requirements include, among others, the ECE-R10 standards for EMC = Electro-Magnetic-Compatibility.

## „WORK-ON“ SQUARE



76 x 45 x 95mm (AxBxC)

105 x 55 x 132mm (AxBxC)

110 x 70 x 137mm (AxBxC)

- Halter aus Edelstahl
- Alle Ausführungen mit 400 mm Anschlusskabel
- Ausführungen mit montierten AMP- oder DT-Stecker auf Anfrage

- stainless steel holder
- all versions with 400 mm connection cable
- variants with AMP- or DT-connector on request

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                  | Merkmale<br>Features      | Spann.<br>Voltage | Leistung<br>Power  | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------------|----------------------------------------------|---------------------------|-------------------|--------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>13.7040.000</b><br>Work-On SQ 09 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-30 V           | 9 W<br>670 Lumen   | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm | 0,26 kg           | -45/+60°C<br>IP 67       | 40       | ECE R10              |
|                 | <b>13.7040.100</b><br>Work-On SQ 21 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-30 V           | 21 W<br>1910 Lumen | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm | 0,64 kg           | -45/+60°C<br>IP 67       | 20       | ECE R10              |
|                 | <b>13.7040.200</b><br>Work-On SQ 35 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-30 V           | 35 W<br>3500 Lumen | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm | 0,86 kg           | -45/+60°C<br>IP 67       | 20       | ECE R10              |

## „WORK-ON“ RECTANGULAR



88 x 43 x 40 x 65 mm (AxBxCxD) 110 x 70 x 55 x 96mm (AxBxCxD) 155 x 93 x 70 x 120mm (AxBxCxD)

|  |                                     |                                              |                           |         |                    |                                 |                              |         |                    |    |         |
|--|-------------------------------------|----------------------------------------------|---------------------------|---------|--------------------|---------------------------------|------------------------------|---------|--------------------|----|---------|
|  | <b>13.7041.000</b><br>Work-On RE 06 | LED-Arbeitsscheinwerfer<br>LED Working Light | Spot Beam<br>6000 Kelvin  | 10-30 V | 6 W<br>630 Lumen   | Aluminium/PC<br>schwarz - black | Kabel 400 mm<br>cable 400 mm | 0,24 kg | -45/+60°C<br>IP 67 | 40 | ECE R10 |
|  | <b>13.7041.100</b><br>Work-On RE 16 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-30 V | 16 W<br>1620 Lumen | Aluminium/PC<br>schwarz - black | Kabel 400 mm<br>cable 400 mm | 0,51 kg | -45/+60°C<br>IP 67 | 20 | ECE R10 |
|  | <b>13.7041.200</b><br>Work-On RE 30 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-30 V | 30 W<br>3070 Lumen | Aluminium/PC<br>schwarz - black | Kabel 400 mm<br>cable 400 mm | 0,89 kg | -45/+60°C<br>IP 67 | 20 | ECE R10 |

## LED-ARBEITSSCHEINWERFER SERIE „WORK-ON“ \* LED WORKING LIGHT SERIES „WORK-ON“

## „WORK-ON“ OVAL



98 x 63 x 62 x 82mm (AxBxCxD)    140 x 90 x 70 x 110mm (AxBxCxD)    145 x 98 x 77 x 120mm (AxBxCxD)

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                  | Merkmale<br>Features      | Spann.<br>Voltage | Leistung<br>Power  | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------------|----------------------------------------------|---------------------------|-------------------|--------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>13.7042.000</b><br>Work-On OV 06 | LED-Arbeitsscheinwerfer<br>LED Working Light | Spot Beam<br>6000 Kelvin  | 10-30 V           | 6 W<br>650 Lumen   | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm | 0,23 kg           | -45 / +60°C<br>IP 67     | 20       | ECE R10              |
|                 | <b>13.7042.100</b><br>Work-On OV 16 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-30 V           | 16 W<br>1650 Lumen | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm | 0,63 kg           | -45 / +60°C<br>IP 67     | 20       | ECE R10              |
|                 | <b>13.7042.200</b><br>Work-On OV 27 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-30 V           | 27 W<br>2640 Lumen | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm | 0,71 kg           | -45 / +60°C<br>IP 67     | 20       | ECE R10              |

## „WORK-ON“ ROUND



110 x 55 x 135mm (AxBxC)    110 x 65 x 135mm (AxBxCxD)    110 x 75 x 138mm (AxBxC)

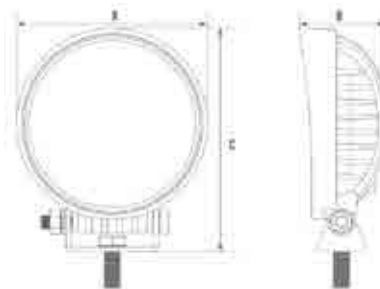
|  |                                     |                                              |                           |         |                    |                                 |                              |         |                      |    |         |
|--|-------------------------------------|----------------------------------------------|---------------------------|---------|--------------------|---------------------------------|------------------------------|---------|----------------------|----|---------|
|  | <b>13.7043.000</b><br>Work-On RO 12 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-30 V | 12 W<br>1150 Lumen | Aluminium/PC<br>schwarz - black | Kabel 400 mm<br>cable 400 mm | 0,52 kg | -45 / +60°C<br>IP 67 | 20 | ECE R10 |
|  | <b>13.7043.100</b><br>Work-On RO 18 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-30 V | 18 W<br>1810 Lumen | Aluminium/PC<br>schwarz - black | Kabel 400 mm<br>cable 400 mm | 0,62 kg | -45 / +60°C<br>IP 67 | 20 | ECE R10 |
|  | <b>13.7043.200</b><br>Work-On RO 27 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-30 V | 27 W<br>2800 Lumen | Aluminium/PC<br>schwarz - black | Kabel 400 mm<br>cable 400 mm | 0,76 kg | -45 / +60°C<br>IP 67 | 20 | ECE R10 |

## LED-ARBEITSSCHEINWERFER SERIE „WORK-ON“ \* LED WORKING LIGHT SERIES „WORK-ON“

## „WORK-ON“ ROUND



57 x 65 x 75mm (AxBxC)



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                  | Merkmale<br>Features      | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------------|----------------------------------------------|---------------------------|-------------------|-------------------|---------------------------------------|------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>13.7045.000</b><br>Work-On RO 08 | LED-Arbeitsscheinwerfer<br>LED Working Light | Flood Beam<br>6000 Kelvin | 10-48 V           | 8 W<br>520 Lumen  | Aluminium/PC<br>schwarz - black       | Kabel 500 mm<br>cable 500 mm | 0,29 kg           | -45 / +60°C<br>IP 67     | 20       | ECE R10              |

## „WORK-ON“ REVERSE



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type         | Beschreibung<br>Description                                          | Merkmale<br>Features      | Spann.<br>Voltage | Leistung<br>Power  | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp.       | VP<br>PU | Homolog.<br>Approval      |
|-----------------|--------------------------------------|----------------------------------------------------------------------|---------------------------|-------------------|--------------------|---------------------------------------|------------------------------|-------------------|--------------------------------|----------|---------------------------|
|                 | <b>13.7044.000</b><br>Work-On RV 15s | LED-Rückfahr-/ Arbeitsscheinwerfer<br>LED Reversing- / Working Light | Flood Beam<br>6000 Kelvin | 9-32 V            | 15 W<br>1300 Lumen | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm |                   | -40 / +50°C<br>IP 67 / IP 6K9K |          | E4-23566<br>E4-10R-064554 |
|                 | <b>13.7044.500</b><br>Work-On RV 15h | LED-Rückfahr-/ Arbeitsscheinwerfer<br>LED Reversing- / Working Light | Flood Beam<br>6000 Kelvin | 9-32 V            | 15 W<br>1300 Lumen | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm |                   | -40 / +50°C<br>IP 67 / IP 6K9K |          | E4-23566<br>E4-10R-064554 |

## „WORK-ON“ REVERSE



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                                          | Merkmale<br>Features      | Spann.<br>Voltage | Leistung<br>Power  | Material / Farbe<br>Material / Colour | Anschluss<br>Connection      | Gewicht<br>Weight | IP / Temp.<br>IP / Temp.       | VP<br>PU | Homolog.<br>Approval      |
|-----------------|-------------------------------------|----------------------------------------------------------------------|---------------------------|-------------------|--------------------|---------------------------------------|------------------------------|-------------------|--------------------------------|----------|---------------------------|
|                 | <b>13.7046.000</b><br>Work-On RV 24 | LED-Rückfahr-/ Arbeitsscheinwerfer<br>LED Reversing- / Working Light | Flood Beam<br>6000 Kelvin | 9-32 V            | 24 W<br>1700 Lumen | Aluminium/PC<br>schwarz - black       | Kabel 400 mm<br>cable 400 mm | 0,6 kg            | -40 / +50°C<br>IP 67 / IP 6K9K |          | E4-23566<br>E4-10R-064554 |





## LED-RUNDUM-KENN- bzw. BLITZLEUCHTE CRYSTAL 2.0 \* LED ROTATING or FLASHING BEACON CRYSTAL 2.0

Die LED-Rundum-Kennleuchten bzw. Blitzleuchten Crystal 2.0 (gem. ECE R65 Klasse 2) überzeugen durch höchste Zuverlässigkeit auch unter harten Einsatzbedingungen, da keine mechanisch bewegten Teile oder Verschleißteile verwendet werden müssen. Die LED-Technik erlaubt eine sehr kompakte Bauform, so dass die Einsatzmöglichkeiten sehr flexibel sind.

The rotating and flashing beacons Crystal 2.0 (according to ECE R65 Class 2) in LED technology convince with highest reliability, even under harsh conditions, since no mechanically moved parts or wear parts are necessary. The LED technology allows a very compact design, so that the application possibilities are very flexible.



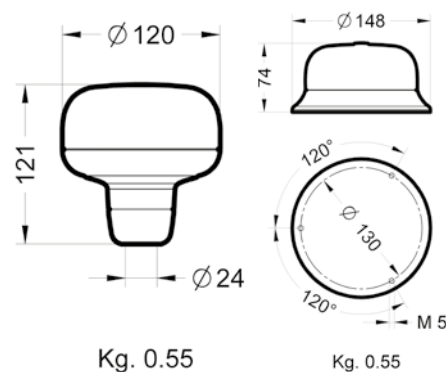
- Crystal 2.0 gem. ECE R65 Klasse 2: Ein Tag /Nacht-Sensor passt die Helligkeit an, um eine nächtliche Blendwirkung zu vermeiden
- Rotierende (Crystal R) und blitzende Versionen (Crystal F)
- Synchronisation von max. 8 Leuchten möglich
- Hochpräzise innere Reflexionslichtscheibe (PMMA) für 360°-Verteilung und Strahlenbündelung
- Mikroprozessor-basierte Timer-Steuerung (für Blitzleuchte mit Blitzeffekt 2F/4F gemäß ECE-R65)
- Verpolungsgeschützt
- ECE R10 Zulassung

- Crystal 2.0 according to ECE R65 Class 2: A day/night sensor adjusts brightness to avoid glare discomfort at night.
- rotating (CRYSTAL R) and flashing versions (CRYSTAL F)
- synchronization of max. 8 beacons
- high-precision inner reflective lens (PMMA) for 360° diffusion and amplification of light output
- Timer control realized with microprocessor (for Flashing Beacon with flashing effect 2F/4F according to ECE-R65)
- protected against polarity reversal
- ECE R10 Approval

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type            | Beschreibung<br>Description                   | Merkmale<br>Features                     | Spann.<br>Voltage | Leistung<br>Power            | Material / Farbe<br>Material / Colour | Anschluss<br>Connection         | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-----------------------------------------|-----------------------------------------------|------------------------------------------|-------------------|------------------------------|---------------------------------------|---------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>16.0124.002</b><br>Crystal 2.0 RA    | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 130 +/- 10 rpm<br>DINA-Rohrstube         | 12-24 V<br>DC     | 12 V - 0,7 A<br>24 V - 0,4 A | Lichtsch./Lens: PC<br>Geh./Body: Alu  | über Rohrst.<br>via tube socket | 0,53 kg           | -30 / +50°C<br>IP 66     | 1        | TA2<br>E3-007292     |
|                 | <b>16.0125.002</b><br>Crystal 2.0 FA    | LED-Blitzleuchte<br>LED Flashing Beacon       | 130 +/- 10 flash/min<br>DINA-Rohrstube   | 12-24 V<br>DC     | 12 V - 1,2 A<br>24 V - 0,8 A | Lichtsch./Lens: PC<br>Geh./Body: Alu  | über Rohrst.<br>via tube socket | 0,53 kg           | -30 / +50°C<br>IP 66     | 1        | TA2<br>E3-007293     |
|                 | <b>16.0126.002</b><br>Crystal 2.0 RB    | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 130 +/- 10 rpm<br>DINB-Sockel base       | 12-24 V<br>DC     | 12 V - 0,7 A<br>24 V - 0,4 A | Lichtsch./Lens: PC<br>Geh./Body: Alu  | Anschlussklemme<br>connector    | 0,39 kg           | -30 / +50°C<br>IP 69K    | 1        | TA2<br>E3-007292     |
|                 | <b>16.0127.002</b><br>Crystal 2.0 FB    | LED-Blitzleuchte<br>LED Flashing Beacon       | 130 +/- 10 flash/min<br>DINB-Sockel base | 12-24 V<br>DC     | 12 V - 1,2 A<br>24 V - 0,8 A | Lichtsch./Lens: PC<br>Geh./Body: Alu  | Anschlussklemme<br>connector    | 0,39 kg           | -30 / +50°C<br>IP 69K    | 1        | TA2<br>E3-007293     |
|                 | <b>16.0128.002</b><br>Crystal 2.0 R FLX | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 130 +/- 10 rpm<br>DINA-Rohrstube         | 12-24 V<br>DC     | 12 V - 0,7 A<br>24 V - 0,4 A | Lichtsch./Lens: PC<br>Geh./Body: PA   | über Rohrst.<br>via tube socket | 0,61 kg           | -30 / +50°C<br>IP 66     | 1        | TA2<br>E3-007292     |
|                 | <b>16.0129.002</b><br>Crystal 2.0 F FLX | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 130 +/- 10 flash/min<br>DINA-Rohrstube   | 12-24 V<br>DC     | 12 V - 1,2 A<br>24 V - 0,8 A | Lichtsch./Lens: PC<br>Geh./Body: PA   | über Rohrst.<br>via tube socket | 0,61 kg           | -30 / +50°C<br>IP 66     | 1        | TA2<br>E3-007293     |

## LED-RUNDUM-KENN- bzw. BLITZLEUCHTE CRYSTAL JUNIOR \* LED ROTATING or FLASHING BEACON CRYSTAL JUNIOR

Die LED-Rundum-Kennleuchten bzw. Blitzleuchten Crystal Junior überzeugen durch höchste Zuverlässigkeit auch unter harten Einsatzbedingungen, da keine mechanisch bewegten Teile oder Verschleißteile verwendet werden müssen. Die LED-Technik erlaubt eine sehr kompakte Bauform, so dass die Einsatzmöglichkeiten sehr flexibel sind.  
*The rotating and flashing beacons Crystal Junior in LED technology convince with highest reliability, even under harsh conditions, since no mechanically moved parts or wear parts are necessary. The LED technology allows a very compact design, so that the application possibilities are very flexible.*



- Rotierende (Crystal R) und blitzende Versionen (Crystal F)
- Synchronisation von max. 8 Leuchten möglich
- Hochpräzise innere Reflexionslichtscheibe (PMMA) für 360°-Verteilung und Strahlenbündelung
- Mikroprozessor-basierte Timer-Steuerung (für Blitzleuchte mit Blitzeffekt 2F/4F gemäß ECE-R65)
- Verpolungsgeschützt
- ECE R10 Zulassung
- CISPR 25 Klasse 3

- rotating (CRYSTAL R) and flashing versions (CRYSTAL F)
- synchronization of max. 8 beacons
- high-precision inner reflective lens (PMMA) for 360° diffusion and amplification of light output
- timer control realized with microprocessor (for Flashing Beacon with flashing effect 2F/4F according to ECE-R65)
- protected against polarity reversal
- ECE R10 Approval
- CISPR 25 class 3

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type               | Beschreibung<br>Description                   | Merkmale<br>Features                     | Spann.<br>Voltage | Leistung<br>Power            | Material / Farbe<br>Material / Colour | Anschluss<br>Connection         | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------|------------------------------------------|-------------------|------------------------------|---------------------------------------|---------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>16.0136.002</b><br>Crystal Junior RA    | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 120 +/- 10 rpm<br>DINA-Rohrstube         | 12-24 V<br>DC     | 12 V - 0,7 A<br>24 V - 0,3 A | Lichtsch./Lens: PC<br>Geh./Body: Alu  | über Rohrst.<br>via tube socket | 0,53 kg           | -30 / +50°C<br>IP 66     | 1        | TA1<br>E3-7296       |
|                                                                                     | <b>16.0139.002</b><br>Crystal Junior FA    | LED-Blitzleuchte<br>LED Flashing Beacon       | 120 +/- 10 flash/min<br>DINA-Rohrstube   | 12-24 V<br>DC     | 12 V - 2,3 A<br>24 V - 1,0 A | Lichtsch./Lens: PC<br>Geh./Body: Alu  | über Rohrst.<br>via tube socket | 0,53 kg           | -30 / +50°C<br>IP 66     | 1        | TA1<br>E3-7299       |
|  | <b>16.0137.002</b><br>Crystal Junior RB    | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 120 +/- 10 rpm<br>DINB-Sockel base       | 12-24 V<br>DC     | 12 V - 0,7 A<br>24 V - 0,3 A | Lichtsch./Lens: PC<br>Geh./Body: Alu  | Anschlussklemme<br>connector    | 0,39 kg           | -30 / +50°C<br>IP 69K    | 1        | TA1<br>E3-7296       |
|                                                                                     | <b>16.0140.002</b><br>Crystal Junior FB    | LED-Blitzleuchte<br>LED Flashing Beacon       | 120 +/- 10 flash/min<br>DINB-Sockel base | 12-24 V<br>DC     | 12 V - 2,3 A<br>24 V - 1,0 A | Lichtsch./Lens: PC<br>Geh./Body: Alu  | Anschlussklemme<br>connector    | 0,39 kg           | -30 / +50°C<br>IP 69K    | 1        | TA1<br>E3-7299       |
|  | <b>16.0138.002</b><br>Crystal Junior R FLX | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 120 +/- 10 rpm<br>DINA-Rohrstube         | 12-24 V<br>DC     | 12 V - 0,7 A<br>24 V - 0,3 A | Lichtsch./Lens: PC<br>Geh./Body: PA   | über Rohrst.<br>via tube socket | 0,61 kg           | -30 / +50°C<br>IP 66     | 1        | TA1<br>E3-7296       |
|                                                                                     | <b>16.0141.002</b><br>Crystal Junior F FLX | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 120 +/- 10 flash/min<br>DINA-Rohrstube   | 12-24 V<br>DC     | 12 V - 2,3 A<br>24 V - 1,0 A | Lichtsch./Lens: PC<br>Geh./Body: PA   | über Rohrst.<br>via tube socket | 0,61 kg           | -30 / +50°C<br>IP 66     | 1        | TA1<br>E3-7299       |

## LED-RUNDUM-KENN- bzw. BLITZLEUCHTE EVOLUX \* LED ROTATING or FLASHING BEACON EVOLUX

Die LED-Rundum-Kennleuchten bzw. Blitzleuchten EVOLUX überzeugen durch ein hervorragendes Preis-Leistungsverhältnis bei hoher Zuverlässigkeit auch unter anspruchsvollen Einsatzbedingungen. Die LED-Technik erlaubt eine sehr kompakte Bauform, so dass die Einsatzmöglichkeiten sehr flexibel sind.

The rotating and flashing beacons EVOLUX in LED technology convince with an excellent price-performance relation even under the most difficult operation conditions. The LED technology allows a very compact design, so that the application possibilities are very flexible.



- Rotierende (Evolux R) und blitzende Versionen (Evolux F)
- Synchronisation von max. 8 Leuchten möglich
- Hochpräzise innere Reflexionslichtscheibe (PMMA) für 360°- Verteilung und Strahlenbündelung
- Mikroprozessor-basierte Timer-Steuerung (für Blitzleuchte mit Blitzeffekt 2F/4F gemäß ECE-R65)
- Verpolungsgeschützt
- ECE R10 Zulassung
- CISPR 25 Klasse 3
- rotating (Evolux R) and flashing versions (Evolux F)
- synchronization of max. 8 beacons
- high-precision inner reflective lens (PMMA) for 360° diffusion and amplification of light output
- timer control realized with microprocessor (for Flashing Beacon with flashing effect 2F/4F according to ECE-R65)
- protected against polarity reversal
- ECE R10 Approval
- CISPR 25 class 3

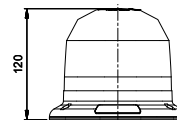
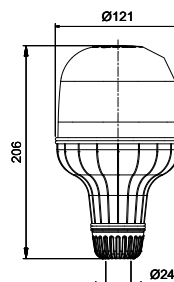
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type       | Beschreibung<br>Description                   | Merkmale<br>Features                     | Spann.<br>Voltage | Leistung<br>Power            | Material / Farbe<br>Material / Colour | Anschluss<br>Connection         | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------------|------------------------------------------|-------------------|------------------------------|---------------------------------------|---------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>16.0130.002</b><br>Evolux RA    | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 120 +/- 10 rpm<br>DINA-Rohrstube         | 12-24 V<br>DC     | 12 V - 0,7 A<br>24 V - 0,3 A | Lichtsch./Lens: PC<br>Geh./Body: PA   | über Rohrst.<br>via tube socket | 0,37 kg           | -30 / +50°C<br>IP 65     | 1        | TA1<br>E3-007297     |
|                                                                                     | <b>16.0133.002</b><br>Evolux FA    | LED-Blitzleuchte<br>LED Flashing Beacon       | 120 +/- 10 flash/min<br>DINA-Rohrstube   | 12-24 V<br>DC     | 12 V - 2,3 A<br>24 V - 1,0 A | Lichtsch./Lens: PC<br>Geh./Body: PA   | über Rohrst.<br>via tube socket | 0,46 kg           | -30 / +50°C<br>IP 65     | 1        | TA1<br>E3-007298     |
|  | <b>16.0131.002</b><br>Evolux RB    | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 120 +/- 10 rpm<br>DINB-Sockel base       | 12-24 V<br>DC     | 12 V - 0,7 A<br>24 V - 0,3 A | Lichtsch./Lens: PC<br>Geh./Body: PA   | Anschlussklemme<br>connector    | 0,34 kg           | -30 / +50°C<br>IP 65     | 1        | TA1<br>E3-007297     |
|                                                                                     | <b>16.0134.002</b><br>Evolux FB    | LED-Blitzleuchte<br>LED Flashing Beacon       | 120 +/- 10 flash/min<br>DINB-Sockel base | 12-24 V<br>DC     | 12 V - 2,3 A<br>24 V - 1,0 A | Lichtsch./Lens: PC<br>Geh./Body: PA   | Anschlussklemme<br>connector    | 0,43 kg           | -30 / +50°C<br>IP 65     | 1        | TA1<br>E3-007298     |
|  | <b>16.0132.002</b><br>Evolux R FLX | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 120 +/- 10 rpm<br>DINA-Rohrstube         | 12-24 V<br>DC     | 12 V - 0,7 A<br>24 V - 0,3 A | Lichtsch./Lens: PC<br>Geh./Body: EPDM | über Rohrst.<br>via tube socket | 0,44 kg           | -30 / +50°C<br>IP 65     | 1        | TA1<br>E3-007297     |
|                                                                                     | <b>16.0135.002</b><br>Evolux F FLX | LED-Rundum-Kennleuchte<br>LED Rotating Beacon | 120 +/- 10 flash/min<br>DINA-Rohrstube   | 12-24 V<br>DC     | 12 V - 2,3 A<br>24 V - 1,0 A | Lichtsch./Lens: PC<br>Geh./Body: EPDM | über Rohrst.<br>via tube socket | 0,53 kg           | -30 / +50°C<br>IP 65     | 1        | TA1<br>E3-007298     |



## LED-BLITZLEUCHTE EUROROT \* LED FLASHING BEACON EUROROT

Die Rundum-Blitzleuchten EUROROT in LED-Technik überzeugen durch höchste Zuverlässigkeit auch unter harten Einsatzbedingungen, da keine mechanisch bewegten Teile oder Verschleißteile mehr nötig sind. Die LED-Technik erlaubt eine sehr kompakte Bauform, so dass die Einsatzmöglichkeiten sehr flexibel sind.

The flashing beacons EUROROT in LED technology convince with highest reliability, even under harsh conditions, since no mechanically moved parts or wear parts are necessary. The LED technology allows a very compact design, so that the application possibilities are very flexible.



- Optik-/Elektronikeinheit mit 6 HighPower-LEDs
- Hochpräzise innere Reflexionslichtscheibe (PMMA) für 360°-Verteilung und Strahlenbündelung
- Mikroprozessor-basierte Timer-Steuerung (Blitzeffekt gemäß ECE-R65)
- Lichtscheibe austauschbar
- Verpolungsgeschützt
- Einschaltdauer: unbegrenzt
- ECE R10 Zulassung

- optical/electronic unit made up of 6 high power LED's
- high-precision inner reflective lens (PMMA) for 360° diffusion and amplification of light output
- timer control realized with microprocessor (flashing effect according to ECE-R65)
- exchangeable lens
- protected against polarity reversal
- Duty cycle: unlimited
- ECE R10 Approval

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type             | Beschreibung<br>Description             | Merkmale<br>Features           | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection         | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------------------|-----------------------------------------|--------------------------------|-------------------|-------------------|---------------------------------------|---------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>16.0118.002</b><br>LED Eurorot F Flex | LED-Blitzleuchte<br>LED Flashing Beacon | 130 +/- 10 fpm<br>ISO-A Socket | 12-24 V           |                   | Lichtsch./Lens: PC<br>Geh./Body: EPDM | über Rohrst.<br>via tube socket | 0,44 kg           | -30 / +50°C<br>IP 65     | 1        | E3-7204<br>EMV/EMC   |
|                 | <b>16.0117.002</b><br>LED Eurorot F B    | LED-Blitzleuchte<br>LED Flashing Beacon | 130 +/- 10 fpm<br>ISO-B1 Base  | 12-24 V           |                   | Lichtsch./Lens: PC<br>Geh./Body: PA   | Anschlussklemme<br>connector    | 0,28 kg           | -30 / +50°C<br>IP 65     | 1        | E3-7204<br>EMV/EMC   |

## Zubehör / Ersatzteile \* Accessories / Spare parts

|  |                    |                              |                                                                                                 |  |  |  |  |         |  |  |  |
|--|--------------------|------------------------------|-------------------------------------------------------------------------------------------------|--|--|--|--|---------|--|--|--|
|  | <b>19.2102.002</b> | Aufsteckrohr<br>Slip-on tube | zum Anschweißen<br>for welding on                                                               |  |  |  |  | 0,19 kg |  |  |  |
|  | <b>19.2102.012</b> | Aufsteckrohr<br>Slip-on tube | zum Aufschrauben<br>for screwing on                                                             |  |  |  |  | 0,25 kg |  |  |  |
|  | <b>19.2102.022</b> | Aufsteckrohr<br>Slip-on tube | zum Einschrauben<br>for screwing in                                                             |  |  |  |  | 0,22 kg |  |  |  |
|  | <b>19.2102.032</b> | Aufsteckrohr<br>Slip-on tube | zur Winkelbefestigung<br>for fitting on angular bracket                                         |  |  |  |  | 0,29 kg |  |  |  |
|  | <b>19.2102.062</b> | Aufsteckrohr<br>Slip-on tube | zum seitlichen Anbau<br>for fitting on angular bracket                                          |  |  |  |  | 0,31 kg |  |  |  |
|  | <b>19.2102.072</b> | Aufsteckrohr<br>Slip-on tube | zum seitlichen Anbau, verstellbar in 90° Winkel<br>for sidewall installation, adjustable in 90° |  |  |  |  | 0,53 kg |  |  |  |
|  | <b>19.2102.082</b> | Aufsteckrohr<br>Slip-on tube | Verlängerung 500 mm<br>extension 500 mm                                                         |  |  |  |  | 0,58 kg |  |  |  |
|  | <b>19.2102.092</b> | Aufsteckrohr<br>Slip-on tube | Verlängerung verstellbar von 750 bis 1250 mm<br>extension adjustable from 750 to 1250 mm        |  |  |  |  | 0,65 kg |  |  |  |

## RÜCKSTRAHLER, WARNEINRICHTUNGEN REFLECTORS, SIGNAL DEVICES

Die passive Sicherheit ist entscheidend! Immer dann, wenn die aktive Beleuchtung ausgeschaltet ist, kann die Unfallgefahr rapide ansteigen. Wirken Sie dem entgegen, indem Sie Ihr Fahrzeug optimal mit Rückstrahlern oder Warneinrichtungen ausstatten! JOKON bietet Ihnen ein breites Produktprogramm in vielen verschiedenen Design-Variationen.

*Passive safety is the decisive factor! The accident risk may rapidly increase whenever the active lighting is switched off. Counteract this by optimally equipping your vehicle with reflex reflectors or signal devices. JOKON offers you a wide product range with many different design variations.*



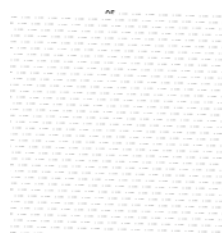




Weitere Rückstrahler finden Sie im Kapitel „LEUCHTEN-SYSTEME“ \* For further reflex reflectors please refer to chapter „LIGHTING SYSTEMS“

R 250

### RÜCKSTRAHLER R 710 mit KLARGLASOPTIK \* REFLEX REFLECTOR R 710 with CLEAR OPTICS

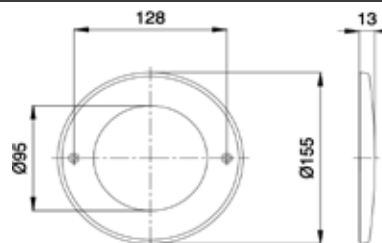


- Für Leuchtenserie 710, 720, 725
- Auf 122 mm vergrößerbar mittels einem in verschiedenen Farben lieferbaren Zierring
- 2 Anschraublöcher 6 mm

- for Lights 710, 720, 725
- can be extended by a decoration rim deliverable in different colors to a diameter of 122 mm
- 2 mounting holes 6 mm

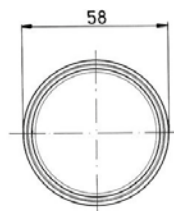
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description      | Merkmale<br>Features                   | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------|----------------------------------|----------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>30.0016.000</b><br>R 710 r | Rückstrahler<br>Reflex Reflector | mit Klarglasoptik<br>with clear optics | SAN - PMMA<br>rot - red               |                         | 0,07 kg           |                          | 100      | IA E1-<br>021936     |

### RÜCKSTRAHLER R 110 \* REFLEX REFLECTOR R 110



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description      | Merkmale<br>Features                                | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|----------------------------------|-----------------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>30.0015.020</b><br>R 110  | Rückstrahler<br>Reflex Reflector | 2 Anschraublöcher 4,5 mm<br>2 mounting holes 4.5 mm | PMMA - ABS<br>rot - red               |                         | 0,12 kg           |                          | 40       | IA E1-<br>021606     |

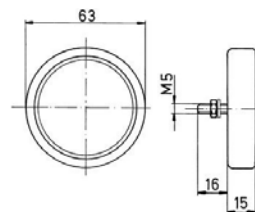
### RÜCKSTRAHLER R 16 \* REFLEX REFLECTOR R 16



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description      | Merkmale<br>Features                            | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|----------------------------------|-------------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>30.0001.000</b><br>R 16 r | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>with self-adhesive tape | PMMA - ABS<br>rot - red               |                         | 0,01 kg           |                          | 100      | IA E1-<br>0231306    |
|                 | <b>30.0001.010</b><br>R 16 g | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>with self-adhesive tape | SAN - ABS<br>gelb - yellow            |                         | 0,01 kg           |                          | 100      | IA E1-<br>0231306    |
|                 | <b>30.0001.020</b><br>R 16 w | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>with self-adhesive tape | SAN - ABS<br>weiß - white             |                         | 0,01 kg           |                          | 100      | IA E1-<br>0231306    |

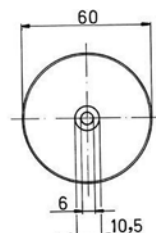


## RÜCKSTRAHLER R 17 \* REFLEX REFLECTOR R 17



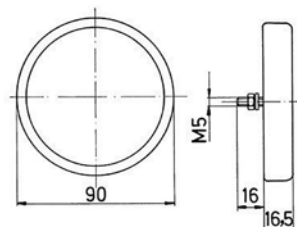
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description      | Merkmale<br>Features                                                                        | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|----------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>30.0002.000</b><br>R 17 r | Rückstrahler<br>Reflex Reflector | mit Kunststoff-Fassung und Schraube M5 x 16<br>with plastic frame and mounting bolt M5 x 16 | PMMA - ABS<br>rot - red               |                         | 0,01 kg           |                          | 50       | IA E1-<br>0231306    |
|                 | <b>30.0002.010</b><br>R 17 g | Rückstrahler<br>Reflex Reflector | mit Kunststoff-Fassung und Schraube M5 x 16<br>with plastic frame and mounting bolt M5 x 16 | SAN - ABS<br>gelb - yellow            |                         | 0,01 kg           |                          | 50       | IA E1-<br>0231306    |
|                 | <b>30.0002.020</b><br>R 17 w | Rückstrahler<br>Reflex Reflector | mit Kunststoff-Fassung und Schraube M5 x 16<br>with plastic frame and mounting bolt M5 x 16 | SAN - ABS<br>weiß - white             |                         | 0,01 kg           |                          | 50       | IA E1-<br>0231306    |

## RÜCKSTRAHLER R 86 / R 89 \* REFLEX REFLECTOR R 86 / R 89



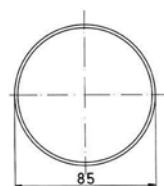
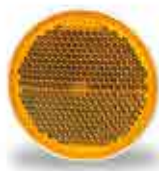
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description      | Merkmale<br>Features                       | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|----------------------------------|--------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>30.0003.000</b><br>R 86 r | Rückstrahler<br>Reflex Reflector | Anschraubloch 6 mm<br>mounting hole 6 mm   | PMMA - ABS<br>rot - red               |                         | 0,02 kg           |                          | 100      | IA E1-<br>0221354    |
|                 | <b>30.0003.010</b><br>R 86 g | Rückstrahler<br>Reflex Reflector | Anschraubloch 6 mm<br>mounting hole 6 mm   | SAN - ABS<br>gelb - yellow            |                         | 0,02 kg           |                          | 100      | IA E1-<br>0221354    |
|                 | <b>30.0003.020</b><br>R 86 w | Rückstrahler<br>Reflex Reflector | Anschraubloch 6 mm<br>mounting hole 6 mm   | SAN - ABS<br>weiß - white             |                         | 0,01 kg           |                          | 100      | IA E1-<br>0221354    |
|                 | <b>30.0006.000</b><br>R 89 r | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | PMMA - ABS<br>rot - red               |                         | 0,02 kg           |                          | 100      | IA E1-<br>0221354    |
|                 | <b>30.0006.010</b><br>R 89 g | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | SAN - ABS<br>gelb - yellow            |                         | 0,02 kg           |                          | 100      | IA E1-<br>0221354    |
|                 | <b>30.0006.020</b><br>R 86 w | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | SAN - ABS<br>weiß - white             |                         | 0,01 kg           |                          | 100      | IA E1-<br>0221354    |

## RÜCKSTRAHLER R 61 \* REFLEX REFLECTOR R 61



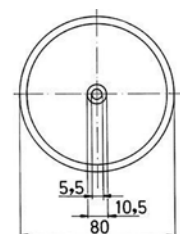
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description      | Merkmale<br>Features                         | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|----------------------------------|----------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>30.0009.000</b><br>R 61 r | Rückstrahler<br>Reflex Reflector | mit Kunststoff-Fassung<br>with plastic frame | PMMA - ABS<br>rot - red               |                         | 0,03 kg           |                          | 25       | IA E1-<br>31281      |

## RÜCKSTRAHLER R 62 \* REFLEX REFLECTOR R 62



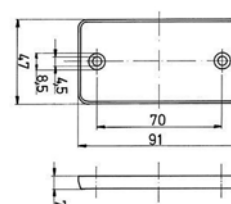
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description      | Merkmale<br>Features                       | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|----------------------------------|--------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>30.0010.000</b><br>R 62 r | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | PMMA - ABS<br>rot - red               |                         | 0,03 kg           |                          | 50       | IA E1-<br>31281      |
|                 | <b>30.0010.010</b><br>R 62 g | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | SAN - ABS<br>gelb - yellow            |                         | 0,03 kg           |                          | 50       | IA E1-<br>31281      |
|                 | <b>30.0010.020</b><br>R 62 w | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | SAN - ABS<br>weiß - white             |                         | 0,03 kg           |                          | 50       | IA E1-<br>31281      |

## RÜCKSTRAHLER R 65 \* REFLEX REFLECTOR R 65



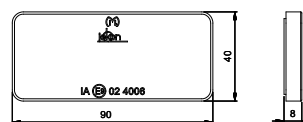
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description      | Merkmale<br>Features                         | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|----------------------------------|----------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>30.0011.000</b><br>R 65 r | Rückstrahler<br>Reflex Reflector | Anschraubloch 5,5 mm<br>mounting hole 5,5 mm | PMMA - ABS<br>rot - red               |                         | 0,03 kg           |                          | 50       | E1-0221362           |
|                 | <b>30.0011.010</b><br>R 65 g | Rückstrahler<br>Reflex Reflector | Anschraubloch 5,5 mm<br>mounting hole 5,5 mm | SAN - ABS<br>gelb - yellow            |                         | 0,03 kg           |                          | 50       | E1-0221362           |
|                 | <b>30.0011.020</b><br>R 65 w | Rückstrahler<br>Reflex Reflector | Anschraubloch 5,5 mm<br>mounting hole 5,5 mm | SAN - ABS<br>weiß - white             |                         | 0,03 kg           |                          | 50       | E1-0221362           |

## RÜCKSTRAHLER R 115 / R 117 \* REFLEX REFLECTOR R 115 / R 117



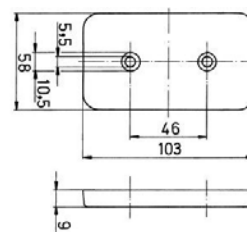
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description      | Merkmale<br>Features                                | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------|----------------------------------|-----------------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>31.0002.000</b><br>R 115 r | Rückstrahler<br>Reflex Reflector | 2 Anschraublöcher 4,5 mm<br>2 mounting holes 4.5 mm | PMMA - ABS<br>rot - red               |                         | 0,03 kg           |                          | 100      | IA E1-<br>0121345    |
|                 | <b>31.0002.010</b><br>R 115 g | Rückstrahler<br>Reflex Reflector | 2 Anschraublöcher 4,5 mm<br>2 mounting holes 4.5 mm | SAN - ABS<br>gelb - yellow            |                         | 0,03 kg           |                          | 100      | IA E1-<br>0121345    |
|                 | <b>31.0002.020</b><br>R 115 w | Rückstrahler<br>Reflex Reflector | 2 Anschraublöcher 4,5 mm<br>2 mounting holes 4.5 mm | SAN - ABS<br>weiß - white             |                         | 0,03 kg           |                          | 100      | IA E1-<br>0121345    |
|                 | <b>31.0004.000</b><br>R 117 r | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape          | PMMA - ABS<br>rot - red               |                         | 0,03 kg           |                          | 100      | IA E1-<br>0121345    |
|                 | <b>31.0004.010</b><br>R 117 g | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape          | SAN - ABS<br>gelb - yellow            |                         | 0,03 kg           |                          | 100      | IA E1-<br>0121345    |
|                 | <b>31.0004.020</b><br>R 117 w | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape          | SAN - ABS<br>weiß - white             |                         | 0,03 kg           |                          | 100      | IA E1-<br>0121345    |

## RÜCKSTRAHLER R 118 \* REFLEX REFLECTOR R 118



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description      | Merkmale<br>Features                       | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------|----------------------------------|--------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>31.0005.501</b><br>R 118 r | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | PMMA - ABS<br>rot - red               |                         | 0,02 kg           |                          | 100      | IA E9<br>024006      |
|                 | <b>31.0005.511</b><br>R 118 g | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | SAN - ABS<br>gelb - yellow            |                         | 0,02 kg           |                          | 100      | IA E9<br>024006      |
|                 | <b>31.0005.521</b><br>R 118 w | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | SAN - ABS<br>weiß - white             |                         | 0,02 kg           |                          | 100      | IA E9<br>024006      |

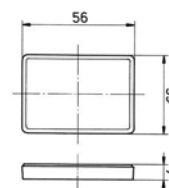
## RÜCKSTRAHLER R 150 \* REFLEX REFLECTOR R 150



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description      | Merkmale<br>Features                                | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------|----------------------------------|-----------------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>31.0009.000</b><br>R 150 r | Rückstrahler<br>Reflex Reflector | 2 Anschraublöcher 5,4 mm<br>2 mounting holes 5.4 mm | PMMA - ABS<br>rot - red               |                         | 0,04 kg           |                          | 50       | E1-013131*           |

\* = für neue Fahrzeug-Homologationen nicht einsetzbar / cannot be used for new vehicle approvals

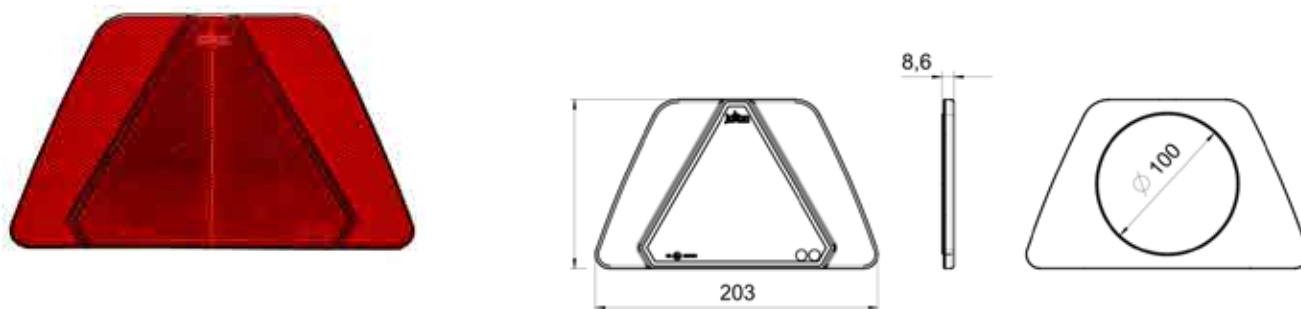
## RÜCKSTRAHLER R 170 \* REFLEX REFLECTOR R 170



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type  | Beschreibung<br>Description      | Merkmale<br>Features                       | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------|----------------------------------|--------------------------------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>31.0015.000</b><br>R 170 r | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | PMMA - ABS<br>rot - red               |                         | 0,04 kg           |                          |          |                      |
|                 | <b>31.0015.010</b><br>R 170 g | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | SAN - ABS<br>gelb - yellow            |                         | 0,04 kg           |                          |          |                      |
|                 | <b>31.0015.020</b><br>R 170 w | Rückstrahler<br>Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape | SAN - ABS<br>weiß - white             |                         | 0,04 kg           |                          |          |                      |

## DREIECK-RÜCKSTRAHLER DR 130 \* TRIANGULAR REFLEX REFLECTOR DR 130

Dreieck-Rückstrahler in den Design-Sonderformen „Reuleaux-Dreieckrückstrahler“, Trapez-Dreieckrückstrahler und „rundem Dreieck-Rückstrahler“ oder in traditioneller Dreieck-Form, teils zur Befestigung mittels hochwertiger Klebefolie oder traditionell geschraubt. Natürlich sind alle Ausführungen homologiert und damit bauartzugelassen.  
 Triangular reflectors in special design forms „Reuleaux triangular reflector“, „trapezoidal triangular reflector“ and „round triangular reflector“ or in traditional triangular-shape either for mounting with high quality adhesive foil or traditionally screwd. Of course, all designs are homologated and type-approved.

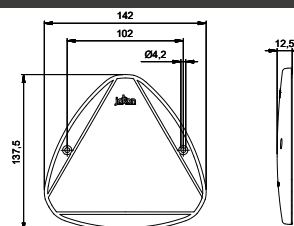


- Ausführungen mit Klebe- oder Schraubbefestigung
- Ausführungen mit Arretierzapfen
- 1a-Kunststoffgranulate
- US-verschweißt

- versions with adhesive or screw mounting
- versions with locking pin
- 1a plastic granules
- US welded

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                         | Merkmale<br>Features                             | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|-----------------------------------------------------|--------------------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>32.0007.000</b><br>DR 130 | Dreieck-Rückstrahler<br>Triangular Reflex Reflector | BL BR S W SN R K PL<br>DI ST TL RV FL RRI INI PL |                   |                   |                                       |                         | 0,11 kg           | -20/+50°C<br>IP 67       | 60       | E13-35922            |

## DREIECK - RÜCKSTRAHLER DR 120 \* TRIANGULAR REFLEX REFLECTOR DR 120

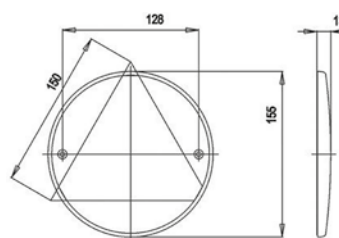


- Einteilig
- Ovale Form

- one optical element
- oval design

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                           | Merkmale<br>Features | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|-------------------------------------------------------|----------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>32.0005.020</b><br>DR 120 | Dreieck - Rückstrahler<br>Triangular Reflex Reflector |                      | PMMA - ABS<br>rot - red               |                         | 0,09 kg           |                          | 100      | E1-023054            |

## DREIECK - RÜCKSTRAHLER DR 110 \* TRIANGULAR REFLEX REFLECTOR DR 110



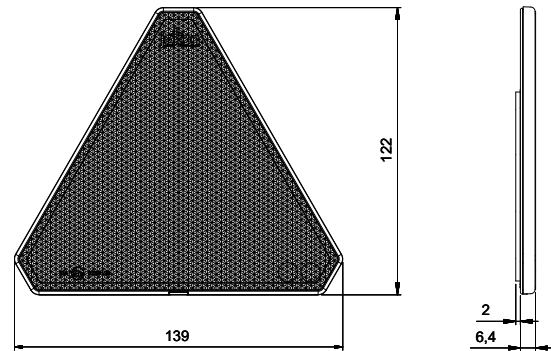
- Einteilig
- Runde Form

- one optical element
- round design

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                           | Merkmale<br>Features | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|-------------------------------------------------------|----------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>32.0001.020</b><br>DR 110 | Dreieck - Rückstrahler<br>Triangular Reflex Reflector |                      | PMMA - ABS<br>rot - red               |                         | 0,10 kg           |                          | 100      | E1-021352            |

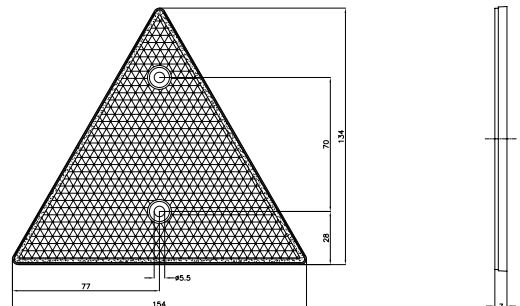


## DREIECK - RÜCKSTRAHLER DR 107 \* TRIANGULAR REFLEX REFLECTOR DR 107



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type   | Beschreibung<br>Description                           | Merkmale<br>Features                                                             | Material / Farbe<br>Material / Colour   | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|--------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>32.0006.000</b><br>DR 107   | Dreieck - Rückstrahler<br>Triangular Reflex Reflector | mit Selbstklebefolie<br>self-adhesive tape                                       | PMMA - ABS<br>rot, schwarz - red, black |                         | 0,07 kg           |                          | 40       | E13-35126            |
|                 | <b>32.0006.200</b><br>DR 107/A | Dreieck - Rückstrahler<br>Triangular Reflex Reflector | mit Selbstklebefolie / Arretierzapfen<br>self-adhesive tape / lock in place pins | PMMA - ABS<br>rot, schwarz - red, black |                         | 0,07 kg           |                          | 32       | E13-35126            |

## DREIECK - RÜCKSTRAHLER DR 106-2 \* TRIANGULAR REFLEX REFLECTOR DR 106-2



|                 | · Einteilig<br>· 2 x M 5 x 5,2 mm |                                                       |                                                   | · one optical element<br>· 2 x M 5 x 5,2 mm |                         |                   |                          |          |                      |
|-----------------|-----------------------------------|-------------------------------------------------------|---------------------------------------------------|---------------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type      | Beschreibung<br>Description                           | Merkmale<br>Features                              | Material / Farbe<br>Material / Colour       | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|                 | <b>32.0004.021</b><br>DR 106 - 3  | Dreieck - Rückstrahler<br>Triangular Reflex Reflector | schwarzer Kunststoff -Boden<br>black plastic base | PMMA - ABS<br>rot, schwarz - red, black     |                         | 0,07 kg           |                          | 100      |                      |

## WARNTAFELN \* SIGNAL PANELS



| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                    | Merkmale<br>Features                                                                                                              | Material / Farbe<br>Material / Colour         | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------------------------------------------------------------------------|------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>36.0010.000</b>           | Sonderlasten - Warntafel<br>Warning Panel      | für Italien, 500 x 500 mm<br>for Italy, 500 x 500 mm                                                                              | Aluminium- aluminum<br>rot, weiß - red, white |                         | 0,84 kg           |                          | 10       |                      |
|                                                                                   |                              | Zusatz-Information:<br>Additional Information: | erforderlich bei überstehender Ladung / mit reflektierender Folie<br>required for protruding load / with reflective adhesive film |                                               |                         |                   |                          |          |                      |
|                                                                                   | <b>36.0011.000</b>           | Sonderlasten - Warntafel<br>Warning Panel      | für Spanien, 500 x 500 mm<br>for Spain 500 x 500 mm                                                                               | Aluminium- aluminum<br>rot, weiß - red, white |                         | 0,84 kg           |                          | 10       |                      |
|                                                                                   |                              | Zusatz-Information:<br>Additional Information: | erforderlich bei überstehender Ladung / mit reflektierender Folie<br>required for protruding load / with reflective adhesive film |                                               |                         |                   |                          |          |                      |

## WARNSCHILD \* WARNING PANEL



- Für langsam fahrende Fahrzeuge und Anhänger
  - Entsprechend ECE-REG. 69
  - Innenteil mit fluoreszierender Leuchtfolie
  - Außenteil mit drei mit der Bodenplatte verschweißten Rückstrahlerleisten aus Kunststoff
  - Mit oder ohne Befestigungsteilen
- for slow vehicles and trailers
  - acc. to ECE 69
  - interior surface with fluorescent film
  - outer part made of three reflex reflector plastic parts bonded to the base plate
  - with or without fastening elements

| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description | Merkmale<br>Features                            | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|------------------------------|-----------------------------|-------------------------------------------------|-------------------|-------------------|---------------------------------------|-------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>36.0006.000</b>           | Warnschild<br>Warning panel | m. Befestigungsteilen<br>w. fastening elements  |                   |                   | PVC<br>rot - red                      |                         | 0,76 kg           |                          | 10       | E20-010001           |
|  | <b>36.0006.100</b>           | Warnschild<br>Warning panel | m. Befestigungsteilen<br>w/o fastening elements |                   |                   | PVC<br>rot - red                      |                         | 0,76 kg           |                          | 10       | E20-010001           |



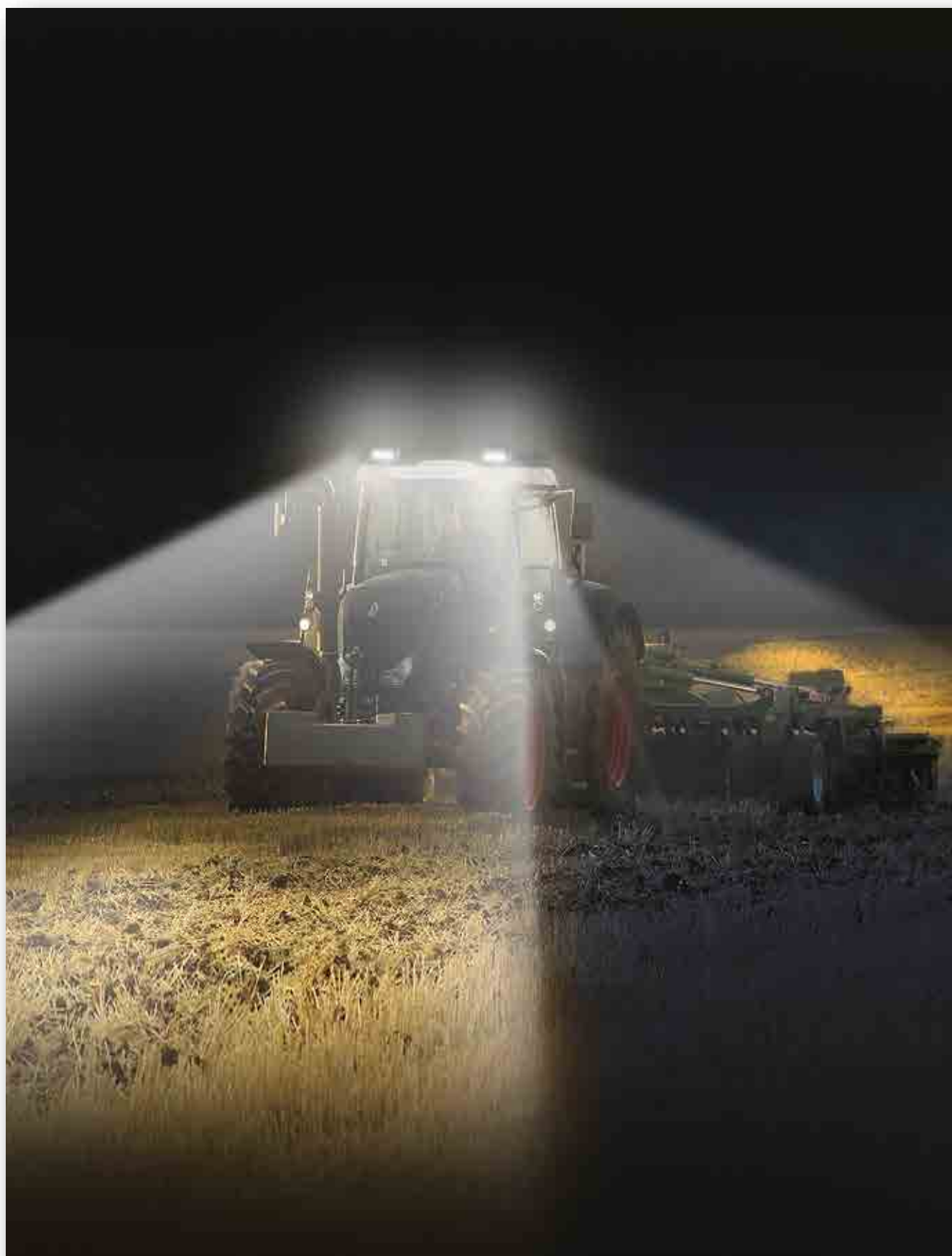
## STECKER, STECKDOSEN UND KURZADAPTER PLUGS, SOCKETS AND SHORT ADAPTERS

Setzt unter Spannung: alles was Sie rund um den Anschluß und die Energieversorgung von Leuchten benötigen, finden Sie bei JOKON. Als Experte für kundenspezifische Lösungen sorgen wir dafür, dass auch besonders anspruchsvolle Leuchten-Kombinationen sicher und zuverlässig funktionieren.

*Get live: you will find everything you need relating to connection and energy supply of lights at JOKON. As experts in customised solutions, we ensure that even particularly sophisticated light combinations operate safely and reliably.*







## STECKER 7-pol. \* 7-pin PLUG



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type     | Beschreibung<br>Description    | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour   | Anschluss<br>Connection             | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|----------------------------------|--------------------------------|----------------------|-------------------|-------------------|-----------------------------------------|-------------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>40.0001.050</b><br>St. 7110.1 | Stecker / 7 Pol.<br>7-pin plug | ISO 1724             | 12 V              |                   | Kunststoff - plastic<br>schwarz - black | Schraubanschluss<br>screw terminals | 0,08 kg           |                          | 20       |                      |
|                 | <b>41.0001.050</b><br>St. 7110.1 | Stecker / 7 Pol.<br>7-pin plug | ISO 1724             | 12 V              |                   | Metal - metal                           | Schraubanschluss<br>screw terminals | 0,12 kg           |                          | 20       |                      |

## STECKDOSE 7-pol. \* 7-pin SOCKET



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description        | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour   | Anschluss<br>Connection             | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|------------------------------------|----------------------|-------------------|-------------------|-----------------------------------------|-------------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>42.0001.050</b><br>D 7222 | Steckdose / 7 pol.<br>7-pin socket | ISO 1724 / 12 N      | 12 V              |                   | Kunststoff - plastic<br>schwarz - black | Schraubanschluss<br>screw terminals | 0,10 kg           |                          | 12       |                      |

## STECKER 7-pol. \* 7-pin PLUG



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                    | Merkmale<br>Features                                                   | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour   | Anschluss<br>Connection             | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|------------------------------------------------|------------------------------------------------------------------------|-------------------|-------------------|-----------------------------------------|-------------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>40.0003.000</b>           | Stecker / 7 Pol.<br>7-pin plug                 | ISO 1724 / 12 N                                                        | 12 V              |                   | Kunststoff - plastic<br>schwarz - black | Schraubanschluss<br>screw terminals | 0,06 kg           |                          | 100      |                      |
|                 |                              | Zusatz-Information:<br>Additional Information: | „Buchform“, mit Schnellverschluss<br>„book shape“, with fast clip lock |                   |                   |                                         |                                     |                   |                          |          |                      |

## STECKER 13-pol. \* 13-pin PLUG



| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                               | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour   | Anschluss<br>Connection             | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|-----------------------------------------------------------|----------------------|-------------------|-------------------|-----------------------------------------|-------------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>45.0001.000</b>           | Stecker 13-pol.<br>13-pin Plug                            | ISO 11446            | 12 V              |                   | Kunststoff - plastic<br>schwarz - black | Schraubanschluss<br>screw terminals | 0,14 kg           |                          | 10       |                      |
|                 | <b>45.0005.200</b>           | Stecker mit 2-loch Kabeltülle<br>plug with 2 hole grommet | ISO 11446            | 12 V              |                   | Kunststoff - plastic<br>schwarz - black | Schraubanschluss<br>screw terminals | 0,14 kg           |                          | 100      |                      |

KUPPLUNGSDOSE 13-pol. \* *13-pin SOCKET*


| · Kompatibel mit 7-pol. Stecker nach ISO 1724 unter Verwendung eines Kurzadapters |                              |                                                                                        |                      |                   |                   | · compatible with 7-pin plugs according to ISO 1724 using a short adapter |                                            |                   |                          |          |                      |
|-----------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------------------------------------------|--------------------------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                                                            | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour                                     | Anschluss<br>Connection                    | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|                                                                                   | <b>46.0001.000</b>           | Steckdose / 13 pol.<br><i>13-pin socket</i>                                            | ISO 11446            | 12 V              |                   | Kunststoff - plastic<br>schwarz - black                                   | Schraubanschluss<br><i>screw terminals</i> | 0,12 kg           |                          | 100      |                      |
|                                                                                   | <b>46.0001.100</b>           | wie vor, m. Abschaltkont. Nebenschlussl.<br><i>as above, w. switch-off contact for</i> | ISO 11446            | 12 V              |                   | Kunststoff - plastic<br>schwarz - black                                   | Schraubanschluss<br><i>screw terminals</i> | 0,14 kg           |                          | 100      |                      |

STECKDOSE 13-pol. \* *13-pin SOCKET*


| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                     | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour   | Anschluss<br>Connection                    | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|-------------------------------------------------|----------------------|-------------------|-------------------|-----------------------------------------|--------------------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>46.0006.000</b>           | Kupplungsdose / 13 pol.<br><i>13-pin socket</i> | ISO 11446            | 12 V              |                   | Kunststoff - plastic<br>schwarz - black | Schraubanschluss<br><i>screw terminals</i> | 0,15 kg           |                          |          |                      |

KURZADAPTER 7 - 13-pol. / 13 - 7-pol. \* *7 - 13-pin / 13 - 7-pin SHORT ADAPTER*


| · Kompatibel mit 7-pol. Stecker nach ISO 1724 unter Verwendung eines Kurzadapters |                              |                                                              |                      |                   |                   | · compatible with 7-pin plugs according to ISO 1724 using a short adapter |                                            |                   |                          |          |                      |
|-----------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------|----------------------|-------------------|-------------------|---------------------------------------------------------------------------|--------------------------------------------|-------------------|--------------------------|----------|----------------------|
| Bild<br>Picture                                                                   | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description                                  | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour                                     | Anschluss<br>Connection                    | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|                                                                                   | <b>45.1009.000</b>           | Kurz Adapter 13 / 7-pol.<br><i>Short Adapter 13 / 7-pins</i> |                      | 12 V              |                   | Kunststoff - plastic<br>schwarz - black                                   | Schraubanschluss<br><i>screw terminals</i> | 0,08 kg           |                          | 10       |                      |
|                                                                                   | <b>45.1010.000</b>           | Kurz Adapter 7 - 13-pol.<br><i>7 - 13-pin Short Adapter</i>  |                      | 12 V              |                   | Kunststoff - plastic<br>schwarz - black                                   |                                            | 0,08 kg           |                          | 10       |                      |

STECKER/STECKDOSE 3-Pol. \* *3-pin Plug Socket*


| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type | Beschreibung<br>Description             | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour   | Anschluss<br>Connection                  | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-----------------|------------------------------|-----------------------------------------|----------------------|-------------------|-------------------|-----------------------------------------|------------------------------------------|-------------------|--------------------------|----------|----------------------|
|                 | <b>44.2001.000</b>           | Stecker / 3 Pol.<br><i>3-pin Plug</i>   | DIN 9680             | 12 V              |                   | Kunststoff - plastic<br>schwarz - black | Crimpschlüsse<br><i>crimp connectors</i> | 0,04 kg           |                          | 100      |                      |
|                 | <b>44.2002.000</b>           | Steckdose 3-pol.<br><i>3-pin Socket</i> | DIN 9680             | 12 V              |                   | Kunststoff - plastic<br>schwarz - black | Crimpschlüsse<br><i>crimp connectors</i> | 0,04 kg           |                          | 100      |                      |

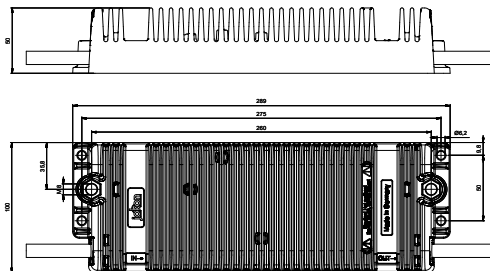
Zusatz-Information:  
Additional Information:

für Landmaschinen und Traktoren  
for agriculture vehicles and tractors

## LED - KONTROLLBOX LK 2000-1 / 12V \* LED - CONTROL DEVICE LK 2000-1 / 12V

LED-Leuchten haben eine viel geringere Leistung und verhalten sich elektrisch völlig anders als Glühlampen-Leuchten. Die Bordcomputer der meisten Fahrzeuge sind auf Anhänger-Leuchten in Glühlampen-Technik ausgelegt, so dass beim Einsatz von LED-Leuchten Probleme unterschiedlicher Art auftreten. Damit ist die Verkehrs-Sicherheit nicht mehr gegeben! Um Anhänger mit LED-Leuchten kompatibel mit Zugfahrzeugen zu machen, ist ein zusätzliches Gerät erforderlich (LK2000). Dieses stellt die nach ECE-R48 geforderte Blinkleuchten-Überwachung auch im Falle von LED-Leuchten sicher und simuliert zusätzlich für alle anderen Leuchten-Funktionen (Brems-, Schluß-, Nebelschluß-, Rückfahr-Leuchte) eine elektrische Last ähnlich einer Glühlampe.

LED lights have a significant lower power than bulb lamps and behave electronically completely different. The on-board computers of most vehicles are designed to work with trailers which are equipped with bulb lights. As a result there might be various problems. The traffic safety is not ensured any more! To make trailers with LED lights compatible with towing vehicles, an additional device is required (LK2000). This device ensures the correct monitoring of direction indicator light according to ECE-R48 also in case of LED lights and simulates for all other light functions (stop, tail, fog, reversing light) a load comparable with bulb lights.

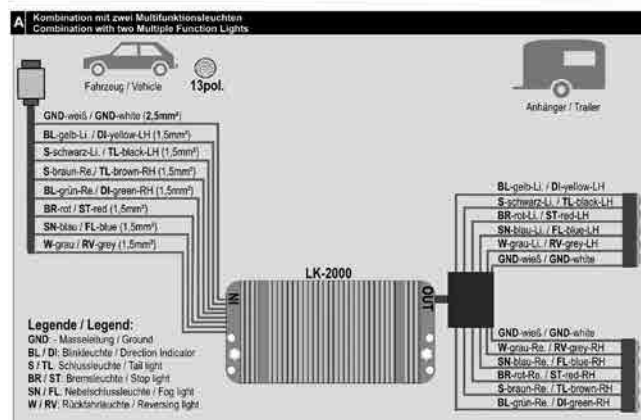
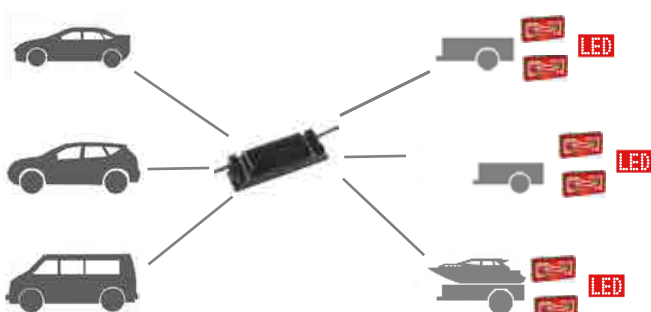


- Ausfallkontrolle und Widerstands-Simulation für LED-Blinkleuchten sowie Widerstands-Simulation aller anderen LED-Leuchten-Funktionen
- Das Produkt überwacht sowohl die linke wie auch die rechte Heckleuchte
- Zur Verwendung mit Fahrzeugen mit marktüblicher Blinkleuchten-Überwachung nach folgenden Systemen: Warmabfrage-Systeme, Kaltabfrage-Systeme und deren Kombination
- Inkl. Leistungswiderstände: BL 2x20W, BR 2x20W, S 2x10W, SN/W je 20W
- Aluminium-Gehäuse / wasserdicht vergossene Elektronik
- Zur Befestigung auf ebenen metallischen Flächen mit 4 x M6 bzw. 2 x M8 oder alternativ mit zwei Metall-Schellen
- Kabel: 7 x 1,5mm<sup>2</sup> + 1 x 2,5mm<sup>2</sup> - **IN** 1 x 3,5m - **OUT** 1 x 1,5m
- Automatische Übertemperatur-Abschaltung
- 289 x 100 x 50 mm
- **Wichtige Hinweise:**
  - (1) das Produkt ist kompatibel mit fast allen gängigen PKW's - dennoch ist vor Fahrt-Antritt die korrekte Funktion mit dem benutzten PKW zu prüfen!
  - (2) das Produkt kann nur in Verbindung mit neuentwickelten JOKON- LED-Leuchten mit „LDC“ (-> LED-Defect-Control) verwendet werden!
  - (3) Installationshinweise gemäß Anleitung genau beachten!
  - (4) Liefertermin auf Anfrage

- failure control and resistor simulation for LED direction indicator lights as well as resistor simulation for all other LED light functions
- the product monitors both tail lights: left and right side
- for use with vehicles with common commercially available direction indicator monitoring according to the following systems: warm check, cold check and combination thereof
- incl. power resistor: DI 2x20W, ST 2x20W, TL 2x10W, FL/RV each 20W
- aluminium housing / completely sealed electronics
- for fixation on even, metallic surfaces with 4 x M6 or 2 x M8 or alternatively with metal clamps
- harness: 7 x 1,5mm<sup>2</sup> + 1 x 2,5mm<sup>2</sup> - **IN** 1 x 3,5m - **OUT** 1 x 1,5m
- automatic overtemperature protection
- 289 x 100 x 50 mm
- **important notice:**
  - (1) the unit is compatible with almost all vehicles - nevertheless the compatibility with the used car must be exactly proved before setting out on the first journey!
  - (2) the unit can be used only with newly developed JOKON-LED-lights with „LDC“ (->LED-Defect-Control)!
  - (3) installation manual must be respected carefully!
  - (4) delivery on request

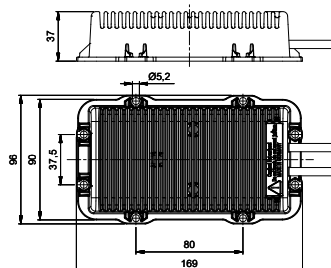
| Bild<br>Picture                                                                     | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description           | Merkmale<br>Features        | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection                                                  | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|-------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|-----------------------------|-------------------|-------------------|---------------------------------------|--------------------------------------------------------------------------|-------------------|--------------------------|----------|----------------------|
|  | <b>62.3020.100</b><br>LK 2000-1/12V | LED-Kontrollbox<br>LED Control Device | Schaltsw/Threshold<br>25 mA | 12 V              | max.140 W         | Aluminium / PU<br>schwarz - black     | Kabel 1x 1500mm<br>Kabel 1x 3500mm<br>cable 1x 1500mm<br>cable 1x 3500mm | 2,60 kg           | -20/+50°C<br>IP 67       | 1        | EMV / EMC            |

## Schaltpläne \* Wiring Diagrams



## LED - KONTROLLBOX LK / LS 200 \* LED - CONTROL DEVICE LK / LS 200

LED Leuchten haben eine viel geringere Leistung und verhalten sich elektrisch völlig anders als Glühlampen-Leuchten. Die Bordcomputer der meisten Fahrzeuge sind auf Anhänger-Leuchten in Glühlampen-Technik ausgelegt, so dass beim Einsatz von LED-Leuchten Probleme unterschiedlicher Art auftreten. Damit ist die Verkehrs-Sicherheit nicht mehr gegeben! Um Anhänger mit LED-Leuchten kompatibel mit Zugfahrzeugen zu machen, sind abhängig von der Leuchten-Funktion zusätzliche Geräte erforderlich. Das LK 200 stellt die nach ECE-R48 geforderte Blinkleuchten-Überwachung auch im Falle von LED-Leuchten sicher. Das LS 200 Gerät hingegen wird für jeweils eine Funktion der anderen Funktionen, wie z.B. Brems-, Schluss-, Nebelschlussleuchten und Rückfahrscheinwerfer benutzt, indem eine glühlampenähnliche Last parallel zur LED-Leuchte geschaltet wird. *LED lights have significantly less power consumption than bulb lights and behave completely differently from an electronic point of view. The on-board computers of most vehicles are designed to work with trailers equipped with bulb lights. Consequently, various problems may occur when using LED lights and traffic safety is no longer ensured! An additional device is required depending on the light functions to make the lights compatible with towing vehicles. The LK 200 ensures the correct monitoring of direction indicator lights according to ECE-R48. The LS 200 simulates parallel to the LED light a load for one function comparable to that of bulbs for other light functions (stop, tail, fog and reversing light).*

**LS 200**

- Widerstands-Simulation aller anderen LED-Leuchten-Funktionen
- Inkl. Leistungswiderstände für eine Funktion: BR 2x20W, S 2x10W, SN/W je 1 x 20W

**Alle Geräte**

- Aluminium-Gehäuse / wasserdicht vergossene Elektronik
- Zur Befestigung auf ebenen metallischen Flächen mit 4 x M5 oder alternativ 4 x ST 4,2
- Inkl. 2 Kabel ( 1,5m ) für linke / rechte Leuchte ( 4x0,75mm<sup>2</sup> )
- Automatische Übertemperatur-Abschaltung
- 169 x 96 x 37 mm

**Wichtige Hinweise:**

- (1) das Produkt ist kompatibel mit fast allen gängigen PKW's - dennoch ist vor Fahrt-Antritt die korrekte Funktion mit dem benutzten PKW zu prüfen!
- (2) Installationshinweise gemäß Anleitung genau beachten!
- (3) Liefertermin auf Anfrage

**LS 200**

- resistor simulation for all other LED light functions
- incl. power resistor for one function: ST 2x20W, TL 2x10W, FL/RV each 1 x 20W

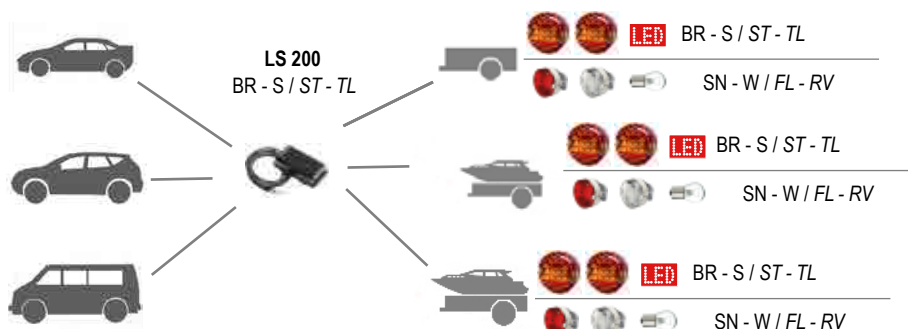
**All devices:**

- aluminium housing / completely sealed electronics
- for fixation on even, metallic surfaces with 4 x M5 or alternatively 4 x ST 4,2
- incl. 2 cables ( 1,5m ) for left / right light ( 4x0.75mm<sup>2</sup> )
- automatic overtemperature protection
- 169 x 96 x 37 mm

**important notice:**

- (1) the unit is compatible with almost all vehicles - nevertheless the compatibility with the used car must be exactly proved before setting out on the first journey!
- (2) installation manual must be respected carefully!
- (3) delivery on request

| Bild<br>Picture | Art.-Nr. / No.<br>Typ / Type                    | Beschreibung<br>Description           | Merkmale<br>Features | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection        | Gewicht<br>Weight | IP / Temp.         | VP<br>PU | Homolog.<br>Approval |
|-----------------|-------------------------------------------------|---------------------------------------|----------------------|-------------------|-------------------|---------------------------------------|--------------------------------|-------------------|--------------------|----------|----------------------|
|                 | <b>62.3035.150</b><br>LS 200 /12V (2x21W)       | LED-Kontrollbox<br>LED Control Device |                      | 12 V              | 2 x 21W           | Aluminium / PU<br>schwarz - black     | Kabel 2x150mm<br>cable 2x150mm | 0,97 kg           | -20/+50°C<br>IP 67 | 1        |                      |
|                 | auf Anfrage / on request<br>LS 200 /12V (2x10W) | LED-Kontrollbox<br>LED Control Device |                      | 12 V              | 2 x 10W           | Aluminium / PU<br>schwarz - black     | Kabel 2x150mm<br>cable 2x150mm | 0,97 kg           | -20/+50°C<br>IP 67 | 1        |                      |
|                 | auf Anfrage / on request<br>LS 200 /12V (2x15W) | LED-Kontrollbox<br>LED Control Device |                      | 12 V              | 2 x 21/5W         | Aluminium / PU<br>schwarz - black     | Kabel 2x150mm<br>cable 2x150mm | 0,97 kg           | -20/+50°C<br>IP 67 | 1        |                      |

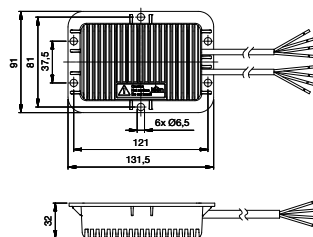
**Beispiel \* Example**



## LED-KONTROLLBOX LK 100-x \* LED CONTROL DEVICE LK 100-x

Funktionsweise: Arbeitet die LED-Blinkleuchte fehlerfrei bzw. ECE-konform, wird durch die LED-Kontrollbox LK 100 ein Leistungswiderstand parallel zur LED-Leuchte geschaltet. Bei einem LED-Defekt bzw. bei einer Unterschreitung der ECE-Werte wird der Leistungswiderstand abgeschaltet und die Blinklichtüberwachung meldet aufgrund der fehlenden Leistung den Defekt.

Function: if the LED light is o.k. and it complies with the ECE regulation, the LK 100 switches on a high power resistor (in parallel to the LED light). In case of a LED defect (or values below ECE regulation), the high power resistor will be switched off and the DI relays recognizes the failure because of the missing power.

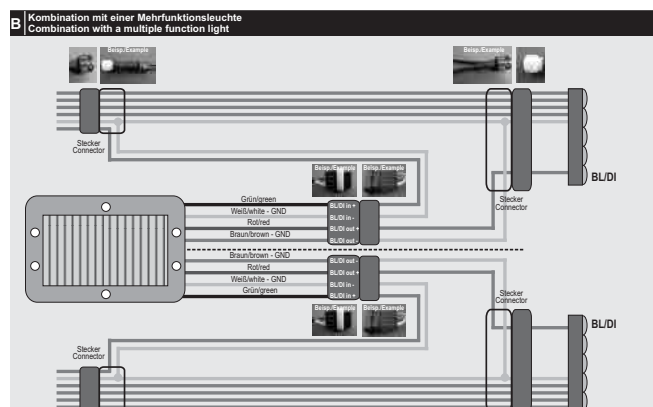
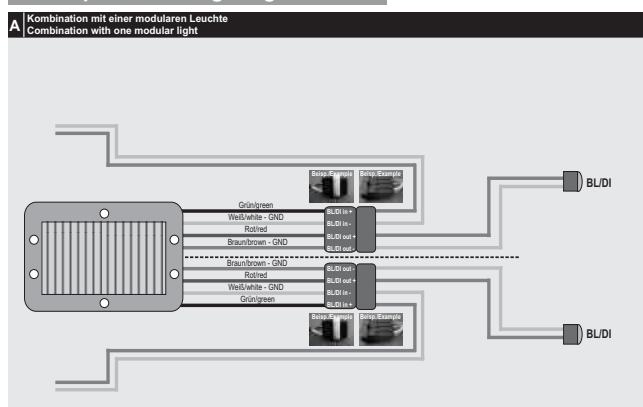


- LED-Leuchten-Ausfallkontrolle für linke und rechte Blinkleuchte
- Verwendung ausschließlich für Systeme mit „Warmabfrage“
- Inkl. 2 Leistungswiderständen (Simulation 21W Glühlampe)
- Aluminium-Gehäuse / Wasserdicht vergossene Elektronik
- Zur Befestigung auf ebenen metallischen Flächen
- Inkl. 2 Kabel (1,5m) für linke/rechte Leuchte (4x0,75mm<sup>2</sup>)
- ON 100% (im Blinkbetrieb), IP 67
- Automatische Übertemperatur-Abschaltung
- 32 x 91 x 131 mm
- **Wichtiger Hinweis:** (1) alle neuentwickelten Leuchten (mit „LDC“ -> LED-Defect-Control) können mit dem LK 100b-1-X genutzt werden. Bei älteren Leuchten-Modellen sind spezielle Versionen des LK 100 nötig (LK 100-2 / -3...)
- (2) Installationshinweise gem. Anleitung beachten!

- LED failure control for left and right DI light
- may be used only in combination with „warm check“
- incl. 2 high power resistors (simul. of 21W-incand. lamp)
- aluminium housing / completely sealed electronics
- for fixation on even, metallic surfaces
- incl. 2 cables (1.5m) for left/right light (4x0.75mm<sup>2</sup>)
- ON 100% (flashing operation), IP 67
- automatic overtemperature protection
- 32 x 91 x 131 mm
- **important notice:** (1) all newly developed LED lights (incl. „LDC“ -> LED-Defect-Control) can be used with LK 100b-1. For old light models special versions of LK 100 are required (LK 100-2 / -3...)
- (2) installation manual must be respected!

| Bild<br>Picture                                | Art.-Nr. / No.<br>Typ / Type        | Beschreibung<br>Description                          | Merkmale<br>Features                                                                                                                                                       | Spann.<br>Voltage | Leistung<br>Power | Material / Farbe<br>Material / Colour | Anschluss<br>Connection          | Gewicht<br>Weight | IP / Temp.<br>IP / Temp. | VP<br>PU | Homolog.<br>Approval |
|------------------------------------------------|-------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|---------------------------------------|----------------------------------|-------------------|--------------------------|----------|----------------------|
|                                                | <b>62.3001.002</b><br>LK 100b-1/12V | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>25 mA (I=const.)                                                                                                                                     | 12 V              | 2 x 21 W          | Aluminium / PU<br>schwarz - black     | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg           | -20/+50°C<br>IP 67       | 1        | EMV / EMC            |
| Zusatz-Information:<br>Additional Information: |                                     |                                                      | geeignet für alle Leuchten mit LDC: (Serie 55, 250, 915, 930, 2011-X, 2121 etc.)<br>suitable for all lights with LDC: (Serie 55, 250, 915, 930, 2011-X, 2121 etc.)         |                   |                   |                                       |                                  |                   |                          |          |                      |
|                                                | <b>62.3001.022</b><br>LK 100-2/12V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>90mA bei / at 12V                                                                                                                                    | 12 V              | 2 x 21 W          | Aluminium / PU<br>schwarz - black     | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg           | -20/+50°C<br>IP 67       | 1        | EMV / EMC            |
| Zusatz-Information:<br>Additional Information: |                                     |                                                      | geeignet für Leuchten: BBS 725/12; BBSR 935/12V; BBS 280/12V; BL 725/12V<br>suitable for lights: BBS 725/12; BBSR 935/12V; BBS 280/12V; BL 725/12V                         |                   |                   |                                       |                                  |                   |                          |          |                      |
|                                                | <b>62.3001.032</b><br>LK 100-3/12V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>45 mA (I=const.)                                                                                                                                     | 12 V              | 2 x 21 W          | Aluminium / PU<br>schwarz - black     | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg           | -20/+50°C<br>IP 67       | 1        | EMV / EMC            |
| Zusatz-Information:<br>Additional Information: |                                     |                                                      | geeignet für Leuchte: BL 726/12 2a; BL 727/12 2a; BBS 730/12 2a, BBS 735/12 2a<br>suitable for light: BL 726/12 2a; BL 727/12 2a; BBS 730/12 2a; BBS 735/12 2a             |                   |                   |                                       |                                  |                   |                          |          |                      |
|                                                | <b>62.3002.012</b><br>LK 100-1/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>20mA (I=const.)                                                                                                                                      | 24 V              | 2 x 21 W          | Aluminium / PU<br>schwarz - black     | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg           | -20/+50°C<br>IP 67       | 1        | EMV / EMC            |
| Zusatz-Information:<br>Additional Information: |                                     |                                                      | geeignet für alle Leuchten mit LDC: (Serie 55, 250, 915, 930, 2011-X, 2121 etc.)<br>suitable for all lights with LDC: (Serie 55, 250, 915, 930, 2011-X, 2121 etc.)         |                   |                   |                                       |                                  |                   |                          |          |                      |
|                                                | <b>62.3002.022</b><br>LK 100-2/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>50mA bei / at 24V                                                                                                                                    | 24 V              | 2 x 21 W          | Aluminium / PU<br>schwarz - black     | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg           | -20/+50°C<br>IP 67       | 1        | EMV / EMC            |
| Zusatz-Information:<br>Additional Information: |                                     |                                                      | geeignet für Leuchte: BL 280/24; BL 730/24 2a; BL 735/24 2a; BBS 730/24; BBS 735/24V<br>suitable for light: BL 280/24; BL 730/24 2a; BL 735/24 2a; BBS 730/24; BBS 735/24V |                   |                   |                                       |                                  |                   |                          |          |                      |
|                                                | <b>62.3002.032</b><br>LK 100-3/24V  | LED-Kontrollbox (Blinker)<br>LED Control Device (DI) | Schaltsw/Threshold<br>60mA bei / at 24V                                                                                                                                    | 24 V              | 2 x 21 W          | Aluminium / PU<br>schwarz - black     | Kabel 2x1500mm<br>cable 2x1500mm | 0,40 kg           | -20/+50°C<br>IP 67       | 1        | EMV / EMC            |
| Zusatz-Information:<br>Additional Information: |                                     |                                                      | geeignet für Leuchte: spezielle Anwendungen<br>suitable for light: special application                                                                                     |                   |                   |                                       |                                  |                   |                          |          |                      |

## Schaltpläne \* Wiring Diagrams



## SPEZIELLE ERSATZTEILE \* SPECIAL SPARE PARTS

## Zubehör / Ersatzteile \* Accessories / Spare parts

|                                                                                   |                                    |                                                            |                                            |  |  |  |                                     |         |  |  |  |
|-----------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------|--------------------------------------------|--|--|--|-------------------------------------|---------|--|--|--|
|                                                                                   | <b>53.5002.011</b><br>AK BL 710/W  | Anschlusskabel - links<br><i>Connecting Cable - left</i>   | 300 mm / ws.-ge.<br>300 mm / wh.-ye.       |  |  |  | Delphi-2pol.<br><i>Delphi-2pin.</i> | 0,02 kg |  |  |  |
|  | <b>53.5002.021</b><br>AK BL 710/W  | Anschlusskabel - rechts<br><i>Connecting Cable - right</i> | 300 mm / ws.-gn.<br>300 mm / wh.-gr.       |  |  |  | Delphi-2pol.<br><i>Delphi-2pin.</i> | 0,02 kg |  |  |  |
|  | <b>53.5002.031</b><br>AK BRS 710/W | Anschlusskabel - links<br><i>Connecting Cable - left</i>   | 300 mm / ws.-r.-sw.<br>300 mm / wh.-r.-bl. |  |  |  | Delphi-3pol.<br><i>Delphi-3pin.</i> | 0,02 kg |  |  |  |
|                                                                                   | <b>53.5002.041</b><br>AK BRS 710/W | Anschlusskabel - rechts<br><i>Connecting Cable - right</i> | 300 mm / ws.-r.-br.<br>300 mm / wh.-r.-br. |  |  |  | Delphi-3pol.<br><i>Delphi-3pin.</i> | 0,02 kg |  |  |  |
|                                                                                   | <b>53.5002.051</b><br>AK SN 710/W  | Anschlusskabel<br><i>Connecting Cable</i>                  | 300 mm / ws.-bl.<br>300 mm / wh.-bl.       |  |  |  | Delphi-2pol.<br><i>Delphi-2pin.</i> | 0,02 kg |  |  |  |
|                                                                                   | <b>53.5002.061</b><br>AK W 710/W   | Anschlusskabel<br><i>Connecting Cable</i>                  | 300 mm / ws.-gr.<br>300 mm / wh.-gr.       |  |  |  | Delphi-3pol.<br><i>Delphi-3pin.</i> | 0,02 kg |  |  |  |

Zusatz-Information:  
Additional Information:

im Einsatz bei Leuchtentyp L710, L65, L810, L3000, L3100  
suitable for lights type L710, L65, L810, L3000, L3100

|  |                    |                                                     |                                 |         |  |  |  |  |  |  |  |
|--|--------------------|-----------------------------------------------------|---------------------------------|---------|--|--|--|--|--|--|--|
|  | <b>F2.0038.000</b> | Glühlampenhalter 2-pol.<br><i>bulb holder 2-pin</i> | für P21W<br><i>for P21W</i>     | BA 15s  |  |  |  |  |  |  |  |
|  | <b>F2.0039.000</b> | Glühlampenhalter 2-pol.<br><i>bulb holder 2-pin</i> | für PY21W<br><i>for PY21W</i>   | BAU 15s |  |  |  |  |  |  |  |
|  | <b>F2.0040.000</b> | Glühlampenhalter 3-pol.<br><i>bulb holder 3-pin</i> | für P21/5W<br><i>for P21/5W</i> | BAY 15s |  |  |  |  |  |  |  |

Zusatz-Information:  
Additional Information:

im Einsatz bei Leuchtentyp L710, L65, L810, L3000, L3100  
suitable for lights type L710, L65, L810, L3000, L3100

|  |                    |                                                                           |                                        |  |  |  |  |  |  |  |  |
|--|--------------------|---------------------------------------------------------------------------|----------------------------------------|--|--|--|--|--|--|--|--|
|  | <b>19.5024.000</b> | Isolierteil mit Kontaktfeder<br><i>Isolation part with contact spring</i> | Kit = 5 Stück<br><i>kit = 5 pieces</i> |  |  |  |  |  |  |  |  |
|--|--------------------|---------------------------------------------------------------------------|----------------------------------------|--|--|--|--|--|--|--|--|

Zusatz-Information:  
Additional Information:

im Einsatz bei Leuchtentyp L541, L542, L561, L562, L2000  
suitable for lights type L541, L542, L561, L562, L2000