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Agricultural machinery
Agricultural machinery such as tractors, working machines and harvesting machines

Forklifts

PROVEN QUALITY AT A GREAT PRICE

With the HELLA VALUEFIT universal lighting products, such as the auxiliary and work lamps, HELLA offers you products that are tailored to your requirements. All HELLA VALUEFIT products meet the relevant technical specifications, they are safe and reliable, and they also make it possible to change over to LED for a low price.
HELLA defines demanding quality criteria that apply throughout the entire manufacturing process. Therefore, before the products are put on the market, they are subjected to the toughest conditions in various test procedures. All products undergo extensive testing procedures in accordance with HELLA’s own standard 67001. This guarantees the high level of HELLA quality that you can always rely on.

QUALITY TESTS

- **Immersion and pressure tightness test** | HELLA LED products have a high level of tightness so that no water can penetrate the devices.

- **Dust test** | HELLA LED products are very dustproof to protect sensitive components from dust.

- **Spray water test** | HELLA LED products are splashwater-proof.

- **Heat, humidity and cold test** | HELLA LED products defy strong temperature fluctuations and changing humidity.

- **High-pressure jet cleaner test** | HELLA LED products can be cleaned using a high-pressure jet cleaner without a problem.

- **Vibration test** | HELLA LED products offer guaranteed high resistance to vibrations.
IP stands for International Protection

The standard exists to specify the protection of electrical equipment against the ingress of solid or liquid foreign bodies such as dust or water on a standardised basis. The degree of protection is determined by a series of tests, also standardised, to determine how well a product is protected against environmental influences.

The degrees of protection are determined in accordance with DIN 40 050 Part 9. Work lamps, for example, are designed for different degrees of protection:

**Degree of protection IP 6K7**

Dust must not penetrate. Even during temporary immersion, no water is to penetrate.

**Degree of protection IP 6K8**

Dust must not penetrate. Protection against continuous immersion.

**Degree of protection IP 6K9K**

Dust must not penetrate. Water that is directed onto the housing during high pressure/steamjet cleaning must not have any harmful effects: the water pressure is approx. 100 bar.

**First digit:** Protection against ingress of solid foreign bodies (dust)

**Second digit:** Protection against liquid (water)
ILLUMINATION OF THE WORKING AREA
HOW IS HOMOGENOUS ILLUMINATION ACHIEVED?

TECHNICAL QUESTIONS ANSWERED WITH EASE – WHAT DO WATTS, KELVIN, LUMENS AND LUX MEAN?

**Watt (W)** | Unit of measurement for the power consumption of a headlamp.

**Kelvin (K)** | Unit of colour temperature, the higher the value the “whiter”/more like daylight the light is. Important: Anything above 7,000 Kelvin is too bright for the human eye and causes glare.

**Lumen (lm)** | The amount of light a lamp emits, but in all directions. Important: Distinction between measured lumens and calculated lumens. This brochure only provides real measured light values.

**Lux (lx)** | This value is decisive for the illumination of the working area. The aim of light development is to get as much light as possible onto the ground. Computer-calculated reflector surfaces are used for this purpose. They focus the light and thus create homogeneous illumination.

COMPACT SERIES

*A HELLA innovation* | The innovative plastic material of the COMPACT series boasts similar thermal conductivity properties to aluminium, but special heat-conducting plastics are used instead of aluminium cooling elements. These plastics perfectly dissipate the heat from the LEDs, ensuring a long service life. This allows the LEDs to operate using the full power supply even at high ambient temperatures.

The benefits:

- Ideal in conditions that pose a high risk of corrosion e.g. via salt that would corrode a plastic housing
- Optimal vibration behaviour thanks to reduced weight
- Plastic material is resistant to external factors such as dust, dirt and water (IP 6K9K/IP 6K7 degrees of protection, HELLA minimum standard)

The high-performance LEDs enable the work lamp to last for up to 60,000 hours.
Homogenous illumination of the work area can be achieved through a combination of various factors. The interplay between the following factors is vital to achieving the right light pattern for the application area.

1. Mounting height: The light pattern and illumination vary at different surface mounting heights. The optimal surface mounting height is > 2.5 m.

The advantages are increased safety, because the surroundings and potential obstacles or danger spots can be detected more quickly, and increased efficiency at work, because the body is subjected to less strain, allowing workers to stay focused for longer.

WORK LAMPS

Ultra Beam LED (Gen. 2)
Upright/pendant surface mounting, multi-voltage
9 – 32 V, 8 LEDs, power consumption 50 W, light output 4,400 lm, degree of protection IP 6K9K/IP 6K8, ECE R10 approval, CISPR 25 Class 5, DEUTSCH DT connection

W x H x D: 115 mm x 132 mm x 85 mm

1GA 995 606-001 Close-range illumination
1GA 995 606-011 Long-range illumination

Power Beam 1800 LED compact
Upright/pendant surface mounting, multi-voltage
10.5 – 32 V, 6 LEDs, power consumption 26 W, light output 1,850 lm, degree of protection IP 6K9K/IP 6K8, ECE R10 approval, CISPR 25 Class 5, DEUTSCH DT connection, heat conductive plastic housing

W x H x D: 112 mm x 126 mm x 68 mm

1GA 996 488-001 Close-range illumination
1GA 996 488-011 Long-range illumination

Q90 LED compact
Upright/pendant surface mounting, multi-voltage
9 – 32 V, 4 LEDs, power consumption 15 W, light output 1,200 lm, degree of protection IP 6K9K/IP 6K7, ECE R10 approval, CISPR 25 Class 5, connection 500 mm cable, heat conductive plastic housing

W x H x D: 95 mm x 122 mm x 65 mm

1GA 996 284-001 Close-range illumination
1GA 996 284-011 Long-range illumination

S series Power Beam
NEW
Upright/pendant surface mounting, multi-voltage
9 – 32 V, degree of protection IP 6K9K/IP 6K7, ECE R10 approval, CISPR 25 Class 5, DEUTSCH DT connection, plastic housing

W x H x D: 112 mm x 127 mm x 87 mm

~ 1,000 lm/~ 12 W/2 LEDs
1GA 996 588-001 Close-range illumination
1GA 996 588-011 Long-range illumination

~ 1,850 lm/~ 19 W/4 LEDs
1GA 996 588-201 Close-range illumination
1GA 996 588-211 Long-range illumination

70 S series module
NEW
Upright/pendant surface mounting, multi-voltage
9 – 32 V, degree of protection IP 6K9K/IP 6K7, ECE R10 approval, CISPR 25 Class 5, DEUTSCH DT connection, plastic housing

W x H x D: 83 mm x 114 mm x 64 mm

~ 1,000 lm/~ 12 W/2 LEDs
1GO 996 776-001 Close-range illumination
1GO 996 776-011 Long-range illumination

~ 1,850 lm/~ 19 W/4 LEDs
1GO 996 776-201 Close-range illumination
1GO 996 776-211 Long-range illumination

70S series module NEW
FACT VS. FICTION
THE TRUTH ABOUT LUMENS

The luminous flux of work lamps is measured in lumens. The lumen value is one of the decisive factors when choosing a particular LED work lamp. What some manufacturers do not tell you is that the high lumen specifications on their packaging are “calculated” lumens and not “measured” lumens.

USING LUMENS AS A “CURRENCY” FOR THE QUALITY OF A HEADLAMP IS WRONG!

With the change to LED technology, the term “lumen” – the unit of measurement for the intensity of a light – was hyped so much that a sort of “battle of the lumens” has been taking place ever since. In this battle, the terms “calculated lumens” and “measured lumens” are used often.

What are they?
HELLA provides the “measured” lumen value, meaning that it provides a reliable value for the actual light intensity. The lumen value not only stems from the LED used, but from all components of the headlamp involved.

Each work lamp suffers output losses due to the following:

- Electronic components and LEDs transform energy to heat: 25–35% losses
- Reflector or lens system: 5–15% losses
- Calculated lumens ≠ Measured lumens

PLAIN LANGUAGE
This means that, for many competitors, up to 50% of the lumen value should be deducted. In most cases, the lumen values of the individual LEDs are added together. The sum is indicated as light output, which does not correspond to the measured light output.
HELLA VALUEFIT COMPARED

HELLA VALUEFIT brand products offer real added value at a price in line with the market. If you compare this cost-effective alternative from HELLA with similar competitor products, you will see that HELLA VALUEFIT offers you very good products with quality advantages.

All the spare parts meet the relevant technical specifications, are safe and reliable, and facilitate lower cost repairs. Shop smart with HELLA VALUEFIT tested quality at a good price!

<table>
<thead>
<tr>
<th></th>
<th>HELLA VALUEFIT S2500 LED</th>
<th>Competitors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Light output</td>
<td>2500 lm</td>
<td>2160 lm</td>
</tr>
<tr>
<td>Measured light output</td>
<td>2476 lm</td>
<td>1264 lm</td>
</tr>
<tr>
<td>Power consumption</td>
<td>25 W</td>
<td>18 W</td>
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<tr>
<td>Voltage range</td>
<td>10 – 30 V</td>
<td>12 – 36 V</td>
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<tr>
<td>IP degree of protection</td>
<td>IP 6K9K</td>
<td>IP 69</td>
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<tr>
<td>Operating temperature</td>
<td>-40 °C to +50 °C</td>
<td>-30 °C to +50 °C</td>
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<tr>
<td>Salt spray resistance</td>
<td>240 h</td>
<td>Not tested</td>
</tr>
<tr>
<td>Thermal management</td>
<td>OK</td>
<td>OK</td>
</tr>
<tr>
<td>Approval</td>
<td>ECE R10</td>
<td>ECE R10</td>
</tr>
</tbody>
</table>

Isolux diagram
Mounting position: 2.5 m
Inclination: 5°

Conclusion
Good light efficiency, homogeneous light distribution
Weak light efficiency, heterogeneous light distribution
**R1500 LED**
Upright/pendant surface mounting, multi-voltage 10 – 30 V, 9 LEDs, power consumption 15 W, light output 1,500 lm, degree of protection IP 6K9K, ECE R10 approval, connection 800 mm cable

**W x H x D** 107 mm x 133 mm x 41.5 mm

**1G0 357 101-012** Close-range illumination

---

**S1500 LED**
Upright/pendant surface mounting, multi-voltage 10 – 30 V, 9 LEDs, power consumption 15 W, light output 1,500 lm, degree of protection IP 6K9K, ECE R10 approval, connection 800 mm cable

**W x H x D** 100 mm x 129 mm x 40 mm

**1GA 357 103-012** Close-range illumination

---

**R2200 LED**
Upright/pendant surface mounting, multi-voltage 10 – 30 V, 16 LEDs, power consumption 25 W, light output 2,200 lm, degree of protection IP 6K9K, ECE R10 approval, connection 800 mm cable

**W x H x D** 114 mm x 137 mm x 41.5 mm

**1G1 357 105-022** Large-area work illumination

---

**S2500 LED**
Upright/pendant surface mounting, multi-voltage 10 – 30 V, 16 LEDs, power consumption 25 W, light output 2,500 lm, degree of protection IP 6K9K, ECE R10 approval, connection 800 mm cable

**W x H x D** 108 mm x 137 mm x 48 mm

**1GA 357 106-022** Large-area work illumination
The new HELLA VALUEFIT work lamps have a new innovative thermal management system. This achieves an optimum light output depending on the ambient temperature and extends the service life of the work lamps.

**THERMAL MANAGEMENT SYSTEM**

PS1000 LED
Upright/pendant surface mounting, multi-voltage 10 – 48 V, 9 LEDs, power consumption 30 W, light output 3,000 lm, degree of protection IP 67/IP 6K9K, ECE R10 approval, DEUTSCH DT connection, incl. 800 mm cable

W x H x D 100 mm x 123 mm x 73 mm
1GA 357 109-002 Close-range illumination
1GA 357 109-012 Long-range illumination
1GA 357 109-022 Close-range illumination (amber lens)

TS1000 LED
Upright/pendant surface mounting, multi-voltage 10 – 30 V, 9 LEDs, power consumption 9 W, light output 1,000 lm, degree of protection IP 6K7/IP 6K9K, ECE R10 approval, connection 800 mm cable

W x H x D 70.5 mm x 95 mm x 41 mm
1GA 357 110-002 Close-range illumination
Also available as a reverse lamp (see page 29).

TR1000 LED
Upright/pendant surface mounting, multi-voltage 10 – 30 V, 9 LEDs, power consumption 9 W, light output 1,000 lm, degree of protection IP 6K7/IP 6K9K, ECE R10 approval, connection 800 mm cable

W x H x D 75.5 mm x 98 mm x 41 mm
1GA 357 111-002 Close-range illumination
Also available as a reverse lamp (see page 29).
Work Lamp/Off Road

Black Magic Cube
Flush mounting, 3.2”
LED auxiliary high beam headlamp, flush mounting, multi-voltage 10 – 30 V, power consumption 20 W, light output 3,000 lm, degree of protection IP 68/IP 69K, ECE type approval: ECE R10, connection 800 mm cable with DEUTSCH DT connection
W x H x D: 2.7” x 2.8” x 2.4” / 70 mm x 72 mm x 60 mm
Set with 2 headlamps, short adapter cable harness, relay and switch
1FA 358 176-801 Close-range illumination
1FA 358 176-841 Long-range illumination

Black Magic Lightbar (Slim)
20”
LED auxiliary high beam headlamp, upright/pendant surface mounting, multi-voltage 10 – 30 V, power consumption 105 W, light output max. 6,000 lm, degree of protection IP 68/IP 69K, 21 bright high-performance LEDs, ECE type approval: ECE R10, connection 2,000 mm cable with open ends
W x H x D: 20.6” x 1.9” x 2.1” / 522 mm x 47 mm x 54.4 mm
1FA 358 176-301 Auxiliary high beam headlamps

Black Magic Lightbar (Double)
21.5”
LED auxiliary high beam headlamp, upright/pendant surface mounting, multi-voltage 10 – 30 V, power consumption 165 W, light output max. 9,000 lm, degree of protection IP 68/IP 69K, 33 bright high-performance LEDs, ECE type approval: ECE R10, connection 2,000 mm cable with open ends
W x H x D: 23” x 3.4” x 2.7” / 580 mm x 86 mm x 68 mm
1FA 358 176-401 Auxiliary high beam headlamps

Black Magic Mini Light Bars
6.2”
LED auxiliary high beam headlamp, flush mounting, multi-voltage 10 – 30 V, power consumption 30 W, light output max. 1,600 lm, degree of protection IP 68/IP 69K, 6 bright high-performance LEDs, ECE type approval: ECE R10, connection 800 mm cable with open ends
W x H x D: 7.7” x 2.4” x 2.0” / 196 mm x 62 mm x 53 mm
1FB 358 176-221 Close-range illumination
Black Magic Cubes

Light Bar LBX 220
- Upright/pendant surface mounting, multi-voltage
- 9 – 33 V, 3 LEDs, power consumption 22 W, light output 1,000 lm, degree of protection IP 67, ECE R10 approval, DEUTSCH DT connection, incl. 2,000 mm cable
- W x H x D: 209 mm x 98 mm x 80 mm, bracket width 244 – 264 mm
- 1GE 360 000-002 Close-range illumination

Light Bar LBX 380
- Upright/pendant surface mounting, multi-voltage
- 9 – 33 V, 6 LEDs, power consumption 44 W, light output 2,000 lm, degree of protection IP 67, ECE R10 approval, DEUTSCH DT connection, incl. 2,000 mm cable
- W x H x D: 374 mm x 98 mm x 80 mm, bracket width 409 – 429 mm
- 1GJ 360 001-002 Close-range illumination

Light Bar LBX 540
- Upright/pendant surface mounting, multi-voltage
- 9 – 33 V, 9 LEDs, power consumption 66 W, light output 3,500 lm, degree of protection IP 67, ECE R10 approval, DEUTSCH DT connection, incl. 2,000 mm cable
- W x H x D: 539 mm x 98 mm x 80 mm, bracket width 574 – 594 mm
- 1GJ 360 002-002 Long-range illumination, combination illumination

Light Bar LBX 720
- Upright/pendant surface mounting, multi-voltage
- 9 – 33 V, 12 LEDs, power consumption 88 W, light output 5,500 lm, degree of protection IP 67, ECE R10 approval, DEUTSCH DT connection, incl. 2,000 mm cable
- W x H x D: 704 mm x 98 mm x 80 mm, bracket width 739 – 759 mm
- 1GJ 360 003-002 Long-range illumination, combination illumination

Black Magic Lightbar
AUXILIARY HIGH BEAM HEADLAMPS

**LED Light Bar 470 PO**

12/24 V, LED auxiliary high beam headlamp with LED position light, multi-voltage 9 – 33 V, power consumption for 12 V: position light 6 W/high beam 36 W, for 24 V: position light 6 W/high beam 36 W

\[ W \times H \times D \quad 528 \text{ mm} \times 57 \text{ mm} \times 67 \text{ mm} \]

1FJ 958 140-001  ECE ref. 25

**LED Light Bar 350**

12/24 V, LED auxiliary high beam headlamp, with universal bracket, horizontal surface mounting, power consumption 25 W, 12 power LEDs

\[ W \times H \times D \quad 408 \text{ mm} \times 57 \text{ mm} \times 67 \text{ mm} \]

1FJ 958 040-072  ECE ref. 20

1FJ 958 040-082  ECE ref. 30
Light Bar LBE 160 LED
Multi-voltage 12/24 V, LED auxiliary high beam headlamp, with 500 mm connecting cable and 2-pin DEUTSCH DT connection, horizontal surface mounting, upright surface mounting or flush mounting, power consumption 17 W, 3 bright high-performance LEDs, ECE type-approved: ECE R10 and ECE R112
W x H x D 158 mm x 73.5 mm x 92.1 mm (surface mounting)
196.1 mm x 73.9 mm x 92.1 mm (flush mounting)
1FE 358 154-011 ECE ref. 12.5

Light Bar LBE 320 LED
Multi-voltage 12/24 V, LED auxiliary high beam headlamp with position light, with 1,000 mm connecting cable and 3-pin DEUTSCH DT connection, horizontal surface mounting, upright surface mounting, power consumption 48 W, 6 bright high-performance LEDs, ECE type-approved: ECE R7, ECE R10 and ECE R112
W x H x D 311.3 mm x 82.6 mm x 72.5 mm
1FE 358 154-001 ECE ref. 30

Light Bar LBE 480 LED
Multi-voltage 12/24 V, LED auxiliary high beam headlamp with position light, with 1,000 mm connecting cable and 3-pin DEUTSCH DT connection, horizontal surface mounting, upright surface mounting, power consumption 53 W, 10 bright high-performance LEDs, ECE type-approved: ECE R7, ECE R10 and ECE R112
W x H x D 491.3 mm x 82.6 mm x 72.4 mm
1FE 358 154-021 ECE ref. 45

DLB 540 LED
12/24 V, LED auxiliary high beam headlamp, with stainless steel bracket set, horizontal surface mounting, infinitely adjustable, power consumption 66 W, 9 bright high-performance LEDs
W x H x D 539 mm x 98 mm x 80 mm, bracket width 574 – 594 mm
1FJ 360 002-502 ECE ref. 37.5

450 LED
Multi-voltage 12/24 V, LED auxiliary high beam headlamp with position light, horizontal surface mounting, upright/pendant surface mounting, power consumption 75 W, 15 bright high-performance LEDs, ECE type-approved: ECE R10 and ECE R112
W x H x D 162 mm x 148.85 mm x 56.5 mm
1FE 358 154-031 ECE ref. 12.5 with 800 mm connecting cable and 3-pin DEUTSCH DT connection
1FE 358 154-041 ECE ref. 12.5, with 500 mm connecting cable and black stone shield

Set 450 LED
Multi-voltage 12/24 V, LED auxiliary high beam headlamp with position light, with 800 mm connecting cable with 3-pin DEUTSCH DT connection and black stone shield, relay, switch, horizontal surface mounting, upright/pendant surface mounting, power consumption 75 W, 15 bright high-performance LEDs, ECE type approval. ECE R10 and ECE R112
W x H x D 162 mm x 148.85 mm x 56.5 mm per headlamp
1FE 358 154-051 Set, 2 headlamps, ECE ref. 12.5
AUXILIARY HIGH BEAM HEADLAMPS

Jumbo LED
12/24 V, LED auxiliary high beam headlamp, power consumption for 12 V: position light 1.3 W/high beam 8 W, for 24 V: position light 2.7 W/high beam 8 W
W x H x D 238 mm x 141 mm x 113 mm
With position light
1FE 016 773-001 ECE ref. 25, upright surface mounting
1FE 016 773-011 ECE ref. 25, pendant surface mounting
Without position light
1FE 016 773-101 ECE ref. 25, upright surface mounting
1FE 016 773-111 ECE ref. 25, pendant surface mounting

Rallye 3003 LED
12/24 V, LED auxiliary high beam headlamp with LED position light, upright surface mounting, power consumption for 12 V: position light 2.4 W/high beam 14.5 W, for 24 V: position light 5 W/high beam 14.5 W
W x H x D 222 mm x 242 mm x 124.2 mm
1F8 016 797-001 ECE ref. 25
1F8 016 797-011 ECE ref. 50

Luminator LED
12/24 V, LED auxiliary high beam headlamp with LED position light, upright surface mounting, power consumption for 12 V: position light 2.4 W/high beam 14.5 W, for 24 V: position light 5 W/high beam 14.5 W
W x H x D 222.4 mm x 232.5 mm x 129.6 mm
1F8 016 560-001 Metal, ECE ref. 25
1F8 016 560-011 Metal, ECE ref. 50
1F8 016 560-021 Chromium, ECE ref. 25
1F8 016 560-031 Chromium, ECE ref. 50

Luminator Chromium/Metal Celis
12/24 V, H1 high beam headlamp with Celis LED position light, upright surface mounting, power consumption 55/70 W
W x H x D 222.4 mm x 232.5 mm x 135 mm (Chromium)
222.4 mm x 232.5 mm x 129.6 mm (Metal)
1F8 007 560-201 Metal, ECE ref. 37.5
1F8 007 560-211 Chromium, ECE ref. 17.5

Headlamp insert (spare part)
(for Luminator LED and Rallye 3003 LED)
LED high beam headlamp insert with LED position light for Luminator LED and Rallye 3003 LED, with accessories for electrical connection, mounting instructions
Also suitable for upgrading the Luminator Halogen and Rallye 3003 Halogen.
W x D 203 mm x 120.4 mm
1F8 241 400-011 With LED position light, ECE ref. 25
1F8 241 429-011 With LED position light, ECE ref. 50
The reference number (ref.) tells you what the maximum luminous intensity of a headlamp is. With the help of the reference number, you can find out quickly and easily how powerful a headlamp is. The reference number is obtained by converting the maximum luminous intensity in candela. It is a dimensionless number so it has no associated unit of measurement. The high-beam reference number and the ECE type approval are specified for every high beam headlamp. Two high beam headlamps with ref. 17.5 each result in ref. 35 together on the vehicle.

Which is better, a low or high reference number,? | High beam with a low reference number shines wide, but not as far as high beam with a high reference number. For long, straight stretches, high beam with a high reference number is therefore ideal. Winding areas, for example in the mountains, are better illuminated with a low reference number.

Please note the national regulations that apply in your country and check whether you are subject to the ECE regulation in force since 2009. In some countries, only a total high beam of 100 (reference value), i.e. the sum of all high beam headlamps on the vehicle, may be switched on.

The Isolux diagram explains the light distribution of the headlamp. A headlamp emits more intense light at close range than at a distance. The light effect decreases in length as well as in width. The Isolux diagram illustrates four important properties of high beam headlamps:

- What is the shape of the light cone?
- How far does it shine?
- How wide is the illumination?
- What intensity does the light have in which area?

Example of an Isolux diagram
All distances in metres. The different colours of the Isolux diagram provide information about the light intensity.

Red-orange: High illumination intensity. From yellow to green to blue, the illuminance decreases with distance.

1. Low reference number
   Ideal for winding routes
2. High reference number
   Ideal for straight routes
**K-LED 2.0**
Multi-voltage 10 – 32 V, automatic change between day and night mode, rotating or flashing light function, upright usage position, amber polycarbonate light dome, degree of protection IP 6K7/IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5

- 2XD 011 557-101 Fixed attachment
- 2XD 011 557-201 Pipe-socket mounting
- 2XD 011 557-301 Magnetic mounting

With black housing
- 2XD 011 557-841 Fixed attachment
- 2XD 011 557-811 Pipe-socket mounting

**KL 7000 LED**
Multi-voltage 10 – 32 V, rotating light function, upright usage position, amber polycarbonate light dome, degree of protection IP 6K7/IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5

- 2RL 011 484-001 Fixed attachment
- 2RL 011 484-011 Pipe-socket mounting
- 2RL 011 484-021 Magnetic mounting

**K-LED Blizzard**
Multi-voltage 10 – 30 V, flashing light function, double flash signal, upright usage position, crystal clear polycarbonate light dome, amber LEDs, degree of protection IP 6K7/IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5

**Rota LED Compact**
Multi-voltage 10 – 30 V, flashing or rotating light function, upright usage position, amber polycarbonate light dome, degree of protection IP 67/IP X9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5

**KL 700**
Halogen, 24 V, rotating light function, upright usage position, amber PMMA light dome, total current consumption 70 W (H1), degree of protection IP 6K4K/IP 9K, ECE R65 and ECE R10 approval

- 2RL 004 958-111 Fixed attachment, 24 V

**Rota LED Compact**
Halogen, 12/24 V, rotating light function, upright usage position, amber polycarbonate light dome, total current consumption approx. 1.4 A (12 V)/approx. 0.8 A (24 V), power consumption Ø 15 W/max. 19 W, degree of protection IP 6K7/IP 6K9, ECE R65 and ECE R10 approval, CISPR 25 Class 5

- 2RL 013 979-001 Fixed attachment, flashing
- 2RL 016 979-001 Fixed attachment, rotating
- 2XD 013 979-011 Flexible pipe-socket mounting, flashing
- 2RL 014 979-011 Flexible pipe-socket mounting, rotating
- 2XD 013 979-021 Magnetic mounting, flashing
- 2RL 014 979-021 Magnetic mounting, rotating

**K-LED Nano**
Multi-voltage 12/24 V, flashing light function, upright usage position, amber polycarbonate light dome, total current consumption approx. 2.9 A (24 V), power consumption Ø 15 W/ max. 19 W, degree of protection IP 6K7/IP 6K9, ECE R65 and ECE R10 approval, CISPR 25 Class 5

- 2XD 066 146-001 Fixed attachment
- 2XD 066 146-011 Flexible pipe-socket mounting

**KL 7000**
Halogen, 12/24 V, rotating light function, upright usage position, amber PMMA light dome, total current consumption approx. 5 A (12 V)/35 W, approx. 3 A (24 V)/70 W (H1), degree of protection IP 6K7/IP 6K9, ECE R65 and ECE R10 approval, CISPR 25 Class 3

- 2RL 009 506-201 Fixed attachment, 12 V
- 2RL 009 506-211 Fixed attachment, 24 V
- 2RL 009 506-001 Flexible pipe-socket mounting, 12 V
- 2RL 009 506-011 Flexible pipe-socket mounting, 24 V
- 2RL 009 506-101 Pipe-socket mounting, 12 V
- 2RL 009 506-111 Pipe-socket mounting, 24 V
- 2RL 009 506-301 Magnetic mounting, 12 V
- 2RL 009 506-311 Magnetic mounting, 24 V

**K-LED Rebellion**
Multi-voltage 12/24 V, rotating or flashing light function, upright usage position, polycarbonate light ring, degree of protection IP 6K7/IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5 (rotating), CISPR 25 Class 5 (flashing)

- 2RL 455 256-001 Fixed attachment, rotating
- 2XD 455 255-001 Fixed attachment, flashing
- 2RL 455 256-011 Pipe-socket mounting, rotating
- 2XD 455 255-011 Pipe-socket mounting, flashing
- 2RL 455 256-021 Magnetic mounting, rotating
- 2XD 455 255-021 Magnetic mounting, flashing

**Rota LED Compact**
Halogen, 12/24 V, rotating light function, upright usage position, amber polycarbonate light dome, total current consumption approx. 1.4 A (12 V)/approx. 0.8 A (24 V), power consumption Ø 15 W/max. 19 W, degree of protection IP 6K7/IP 6K9, ECE R65 and ECE R10 approval, CISPR 25 Class 5

- 2RL 009 506-001 Fixed attachment
- 2RL 009 506-011 Flexible pipe-socket mounting
- 2RL 009 506-021 Magnetic mounting

**KL 7000**
Halogen, 12/24 V, rotating light function, upright usage position, amber PMMA light dome, total current consumption approx. 5 A (12 V)/35 W, approx. 3 A (24 V)/70 W (H1), degree of protection IP 6K7/IP 6K9, ECE R65 and ECE R10 approval, CISPR 25 Class 3

- 2RL 009 506-001 Fixed attachment
- 2RL 009 506-011 Flexible pipe-socket mounting
- 2RL 009 506-021 Magnetic mounting

**K-LED Nano**
Multi-voltage 12/24 V, flashing light function, upright usage position, amber polycarbonate light dome, total current consumption approx. 2.9 A (24 V), power consumption Ø 15 W/ max. 19 W, degree of protection IP 6K7/IP 6K9, ECE R65 and ECE R10 approval, CISPR 25 Class 5

- 2XD 066 146-001 Fixed attachment
- 2XD 066 146-011 Flexible pipe-socket mounting

**K-LED Blizzard**
Multi-voltage 10 – 30 V, flashing light function, double flash signal, upright usage position, crystal clear polycarbonate light dome, amber LEDs, degree of protection IP 6K7/IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5

- 2XD 012 980-001 Fixed attachment
- 2XD 012 980-011 Flexible pipe-socket mounting
- 2XD 012 980-021 Magnetic mounting

**K-LED Rebelution**
Multi-voltage 12/24 V, rotating or flashing light function, upright usage position, polycarbonate light ring, degree of protection IP 6K7/IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 3 (rotating), CISPR 25 Class 5 (flashing)

- 2RL 455 256-001 Fixed attachment, rotating
- 2XD 455 255-001 Fixed attachment, flashing
- 2RL 455 256-011 Pipe-socket mounting, rotating
- 2XD 455 255-011 Pipe-socket mounting, flashing
- 2RL 455 256-021 Magnetic mounting, rotating
- 2XD 455 255-021 Magnetic mounting, flashing

**K-LED Blizzard**
Multi-voltage 10 – 30 V, flashing light function, double flash signal, upright usage position, crystal clear polycarbonate light dome, amber LEDs, degree of protection IP 6K7/IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5

- 2XD 011 557-101 Fixed attachment
- 2XD 011 557-201 Pipe-socket mounting
- 2XD 011 557-301 Magnetic mounting

With black housing
- 2XD 011 557-841 Fixed attachment
- 2XD 011 557-811 Pipe-socket mounting

**K-LED Rebellion**
Multi-voltage 12/24 V, rotating or flashing light function, upright usage position, polycarbonate light ring, degree of protection IP 6K7/IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5 (flashing)

- 2RL 455 256-001 Fixed attachment, rotating
- 2XD 455 255-001 Fixed attachment, flashing
- 2RL 455 256-011 Pipe-socket mounting, rotating
- 2XD 455 255-011 Pipe-socket mounting, flashing
- 2RL 455 256-021 Magnetic mounting, rotating
- 2XD 455 255-021 Magnetic mounting, flashing
Which beacons are approved for use on roads?
A beacon may only be used on public roads if it meets Directive ECE R65. ECE R65 is the European directive for beacons. It specifies the required light values, light distribution and fitting specifications, etc. The large E-approval mark (here 📌) shows whether the beacon meets the ECE R65 directive and therefore has approval.

Mounting in accordance with ECE R65 | The beacon (warning lamp) must be designed in such a way that it cannot be adjusted after it has been fitted correctly to the vehicle (ECE R65 5.2).

Light values in accordance with ECE R65 | The light values to be achieved are indicated by the effective luminous intensity. An amber rotating beacon must, for example, reach a luminous intensity of 70 cd (candela) at night at a vertical angle of + 8°.

<table>
<thead>
<tr>
<th>Vertical angle</th>
<th>Amber beacon</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°</td>
<td>100 cd (night)</td>
</tr>
<tr>
<td>8°</td>
<td>70 cd</td>
</tr>
</tbody>
</table>

K-LED REBELUTION
THE BEAUTY FOR YOUR BEAST
The powerful LED warning lamps “Micro Light Bar” and “Mini Light Bar” generate an intensive 360° warning signal and are suitable for various applications. Both sizes of the light bar offer different design and mounting options and combine a flashing and rotating signal in one product. The Micro and Mini Light Bars are available with either a clear or amber lens, and the built-in LEDs are amber, meaning that the warning signal for both design variants are also amber.
MOBILE WARNING LAMPS
FOR CAR DRIVERS

**SOS 360°**
9 V, LED, 2 magnetically activated light functions, amber warning light, white working light, CE-tested, power consumption: 9 x 1 W (amber warning light), 18 x 0.5 W (white working light), 9 V battery 6LR61 550 mAh (not included in scope of delivery)

2XW 359 001-001  P 54

**HELLA 3003 warning lamp**
6 V, with bulb B2 / 4 W, certification symbol K13949, amber flashing safety light, white working light, with black fastening bracket and orange housing, battery operation (5 monocells, not included in scope of delivery)

2XW 007 146-001
WARNING LAMPS

**BST Slim** (3 LEDs)

- Multi-voltage 11 – 30 V, 3 LEDs, amber, continuous light and 4 different flashing patterns, 1 level, for horizontal surface mounting, total current consumption 0.7 A (12 V)/0.35 A (24 V), power consumption 6 – 9 W, degree of protection IP X7, IP X9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5
- W x H x D: 89.3 mm x 32 mm x 12.8 mm
- 2XD 014 563-201 Fixed attachment, 2 pcs.

**BST Slim** (6 LEDs)

- Multi-voltage 11 – 30 V, 6 LEDs, amber, continuous light and 4 different flashing patterns, day/night mode, for horizontal flush mounting, total current consumption 1.4 A (12 V)/0.7 A (24 V), power consumption 13 – 17 W, degree of protection IP X7, IP X9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5
- W x H x D: 132 mm x 32 mm x 12.8 mm
- 2XD 014 562-201 Fixed attachment, 2 pcs.

**BST-V Slim** (6 LEDs)

- Multi-voltage 11 – 30 V, 6 LEDs, amber, continuous light and 4 different flashing patterns, day/night mode, for vertical flush mounting, total current consumption 1.4 A (12 V)/0.7 A (24 V), power consumption 13 – 17 W, degree of protection IP X7, IP X9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5
- W x H x D: 32 mm x 132 mm x 12.8 mm
- 2XD 014 592-201 Fixed attachment, 2 pcs.

**BST Round**

- Multi-voltage 11 – 30 V, 4 LEDs, clear lens, amber signal colour, different flashing patterns, day/night mode, total current consumption 2.27 – 2.7 A (12 V)/1.27 – 1.37 A (24 V), power consumption 7 – 33 W, degree of protection for light module IP 6X, IP X4K, IP X9K, degree of protection for ballast IP X7, ECE R65 and ECE R10 approval, CISPR 25 Class 3
- W x H x D: 28.06 mm x 28.06 mm x 39.47 mm
- 2XD 014 564-211 Fixed attachment, 1 ballast, 2 light modules, 2 mounting rings

**BST-V Slim** (6 LEDs)

- Multi-voltage 11 – 30 V, 6 LEDs, amber, continuous light and 4 different flashing patterns, day/night mode, for vertical flush mounting, total current consumption 1.4 A (12 V)/0.7 A (24 V), power consumption 13 – 17 W, degree of protection IP X7, IP X9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5
- W x H x D: 32 mm x 132 mm x 12.8 mm
- 2XD 014 592-201 Fixed attachment, 2 pcs.
BST (3 LEDs)

Multi-voltage 11 – 30 V, 3 LEDs, amber, continuous light and 4 different flashing patterns, 1 level, for horizontal surface mounting, total current consumption 0.48 A (12 V)/0.34 A (24 V), power consumption 7 – 16 W, degree of protection IP 5K4K, IP 9K, IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 3

W x H x D
85.98 mm x 27.66 x mm 15.91 mm (fixed attachment)
64.55 mm x 22.11 mm x 37.5 mm (bracket mounting)

2XD 014 561-201 Fixed attachment, 2 pcs.
2XD 014 561-401 Bracket mounting, 2 pcs.

BST (6 LEDs)

Multi-voltage 11 – 30 V, 6 LEDs, amber, continuous light and 4 different flashing patterns, for horizontal surface mounting, total current consumption for 1 level 0.78 A (12 V)/0.40 A (24 V), day/night mode 1.1 A (12 V)/0.55 A (24 V), power consumption 7 – 14 W, degree of protection IP 5K4K, IP 9K, IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5

W x H x D
127.45 mm x 27.82 mm x 17.61 mm (fixed attachment)
107.11 mm x 22.11 mm x 42 mm (bracket mounting)

2XD 012 160-851 Fixed attachment, 1 level, 2 pcs.
2XD 014 560-201 Fixed attachment, day/night mode, 2 pcs.
2XD 012 160-861 Bracket mounting, 1 level, 2 pcs.
2XD 014 560-401 Bracket mounting, day/night mode, 2 pcs.

BST-V (6 LEDs)

Multi-voltage 11 – 30 V, 6 LEDs, amber, continuous light and 4 different flashing patterns, 1 level, for vertical surface mounting, total current consumption 0.78 A (12 V)/0.40 A (24 V), power consumption 7 – 14 W, degree of protection IP 5K4K, IP 9K, IP 6K9K, ECE R65 and ECE R10 approval, CISPR 25 Class 5

W x H x D
27.82 mm x 127.45 x mm 17.61 mm (fixed attachment)
22.11 mm x 107.11 mm x 42 mm (bracket mounting)

2XD 012 160-951 Fixed attachment, 2 pcs.
2XD 012 160-961 Bracket mounting, 2 pcs.
REAR LAMPS

Multi-function rear lamp

**Halogen, 24 V, E 63217 approval, 9 lamp functions**
(reflex reflector, tail light, stop light, direction indicator light, licence plate light, rear fog light, reversing light, clearance light, side marker light), with pulse for direction indicator failure control, approved for vehicles in accordance with GGVS/ADR

**Installation side left**
`2VD 007 500-4111`  
`OE reference:
1) DAF 088 0196; and TP07002042; MERCEDES-BENZ 001 540 57 70 and 001 540 62 70; SCANIA 2 197 535  
2) DAF 088 0195; MERCEDES-BENZ 001 540 58 70 and 001 540 63 70; SCANIA 2 197 580`

**Installation side right, without licence plate and rear fog light**
`2VP 134 296-041`  
`OE reference:
1) MAN 81.25225-6562, Volkswagen 2V5 945 095 D  
2) MAN 81.25225-6563, Volkswagen 2V5 945 096 D  
3) DAF 1981862  
4) DAF 1981861`

**Installation side left**
`2VP 340 931-1711`  
`OE reference:
1) KRONE 5819070/0; DAF 152 5204 and 196 6041  
2) KRONE 5819071/0; DAF 152 5203 and 196 6040`

**Installation side right**
`2VP 340 931-1611`  
`OE reference:
1) MAN 81.25225-6562, Volkswagen 2V5 945 095 D  
2) MAN 81.25225-6563, Volkswagen 2V5 945 096 D  
3) DAF 1981862  
4) DAF 1981861`

**Lens, installation side left**
`9EL 340 829-001`

**Lens, installation side right**
`9EL 340 829-021`

EasyConn rear lamp

**Halogen, 24 V, E 10218 approval, 6 lamp functions**
(reflex reflector, tail light, stop light, direction indicator light, rear fog light, reversing light), without bulbs, cable entry via PG gland

**Installation side left**
`2VP 340 931-0011`  
`OE reference:
1) KRONE 5819073/0  
2) KRONE 5819072/0`

**Installation side right**
`2VP 340 931-0012`

**Lens, installation side left**
`9EL 340 829-031`

**Lens, installation side right**
`9EL 340 829-021`

EasyConn rear lamp

**Halogen, 24 V, E 10218 approval, 7 lamp functions**
(reflex reflector, tail light, stop light, direction indicator light, rear fog light, reversing light, clearance light), without bulbs, cable entry via PG gland, approved for vehicles in accordance with GGVS/ADR

**Installation side left**
`2VP 340 931-1711`  
`OE reference:
1) KRONE 5819070/0; DAF 152 5204 and 196 6041  
2) KRONE 5819071/0; DAF 152 5203 and 196 6040`

**Installation side right**
`2VP 340 931-1611`  
`OE reference:
1) MAN 81.25225-6562, Volkswagen 2V5 945 095 D  
2) MAN 81.25225-6563, Volkswagen 2V5 945 096 D  
3) DAF 1981862  
4) DAF 1981861`

**Installation side left**
`2VP 340 931-0011`

**Installation side right**
`2VP 340 931-0012`

**W x H**
370 mm x 130 mm

**Lens, installation side left/right**
`9EL 183 432-001`

**Lens, installation side left/right**
`9EL 183 432-021`

Full-LED truck rear lamp

**LED, 24 V, E 5884 approval, 9 lamp functions**
(reflex reflector, tail light, stop light, direction indicator light, licence plate light, rear fog light, reversing light, clearance light, side marker light), with pulse for direction indicator failure control, approved for vehicles in accordance with GGVS/ADR

**Installation side left**
`2VD 012 381-0111`  
`OE reference:
1) MAN 81.25225-6563, Volkswagen 2V5 945 095 D  
2) MAN 81.25225-6562, Volkswagen 2V5 945 096 D  
3) DAF 1981862  
4) DAF 1981861`

**Installation side right**
`2VP 012 381-2211`  
`OE reference:
1) DAF 088 0196, and TP07002042; MERCEDES-BENZ 001 540 57 70 and 001 540 62 70; SCANIA 2 197 535  
2) DAF 088 0195; MERCEDES-BENZ 001 540 58 70 and 001 540 63 70; SCANIA 2 197 580`

**W x H**
403.5 mm x 158.9 mm

**With 7-pin DIN bayonet connector**
`2VD 012 381-0211`  
`Installation side right`

**With HDSCS, 8-pin (heavy duty sealed connector series), additional light function (wiping)**
`2VD 012 381-2111`  
`Installation side left`

**installation side right**
`2VP 012 381-2211`

Multi-function rear lamp

**Halogen, 24 V, E 63217 approval, 9 lamp functions**
(reflex reflector, tail light, stop light, direction indicator light, licence plate light, rear fog light, reversing light, clearance light, side marker light), with installed 24 V bulb and side central connector, approved for vehicles in accordance with GGVS/ADR

**Installation side left**
`2VD 007 500-4111`  
`Installation side right`

**Installation side right, without licence plate and rear fog light**
`2VP 134 296-041`

**Lens, installation side right**
`9EL 134 296-051`

**OE reference:
1) DAF 088 0196; and TP07002042; MERCEDES-BENZ 001 540 57 70 and 001 540 62 70; SCANIA 2 197 535  
2) DAF 088 0195; MERCEDES-BENZ 001 540 58 70 and 001 540 63 70; SCANIA 2 197 580`

**Lens, installation side left**
`9EL 134 296-041`

EasyConn rear lamp

**Halogen, 24 V, E 5855 and 5856 approval, 7 lamp functions**
(reflex reflector, tail light, stop light, clearance light / bulb: reflex reflector, direction indicator, rear fog light, reversing light), with 7-pin EasyConn plug connection and 4 x 2-pin connector, with pulse for direction indicator failure control, approved for vehicles in accordance with GGVS/ADR

**Installation side left**
`2VP 340 961-111`

**Installation side right**
`2VP 340 961-121`

**Lens, installation side left/right**
`9EL 183 432-001`

**Lens, installation side left/right**
`9EL 183 432-021`

**OE reference:
1) KRONE 5819070/0; DAF 152 5204 and 196 6041  
2) KRONE 5819072/0; DAF 152 5203 and 196 6040`
Full-LED multi-function rear lamp (with Krone logo)
Hybrid (halogen/LED), 24 V, 5855 and 5856 approval, 7 lamp functions (LED: Tail light, triangular reflex reflector, stop light/bulb: direction indicator, rear fog light, reversing light, with 7-pin EasyConn plug connection and 4 x 2-pin connector, with pulse for direction indicator failure control
W x H  450 mm x 146 mm
2VP 340 961-511 Left installation side left
2VP 340 961-521 Left installation side right
2VP 340 961-531 Right installation side left, with LED clearance light
2VP 340 961-541 Right installation side right, with LED clearance light

OE reference:
1) DAF 2170853; KRONE 515072258; SCANIA 2841772
2) DAF 2170854; KRONE 515072259; SCANIA 2841773
3) DAF 2170855; KRONE 515072260; SCANIA 2841774
4) DAF 2170856; KRONE 515072281; SCANIA 2841775

NEW

Multi-function rear lamp
Halogen, 24 V, 1072 approval, 7 lamp functions (reflex reflector, tail light, stop light, direction indicator light, rear fog light, reversing light, side marker light), with vibration damping, cable entry via PG gland, approved for vehicles in accordance with GGVS/ADR
W x H  440 mm x 148 mm
2VP 340 450-031 Installation side left
2VP 340 450-021 Installation side right
9EL 340 208-001 Lens, installation side left/right

Rear lamp
Halogen, 24 V, T1 approval, 7 lamp functions (reflex reflector, tail light, stop light, direction indicator light, rear fog light, reversing light, side marker light), with installed 24 V bulbs
W x H  439 mm x 130 mm
2SK 340 101-011 Left/right installation side, with 1,400 mm cable and 6-pin connector
2SK 340 101-031 Left/right installation side, without cable set
9EL 340 201-001 Lens, installation side left/right

OE reference:
1) SCHMITZ CARGOBULL ELO007-0004; SCHWARZMÜLLER 46823
2) SCHMITZ CARGOBULL 000-40.070; DAF 090 6573; SCANIA 2 197 492

NEW

Multi-function rear lamp
LED, 12/24 V, 5 lamp functions (reflex reflector, tail light, stop light, direction indicator), for vehicles in accordance with GGVS/ADR, horizontal surface mounting
W x H  223 mm x 96 mm
With 2,500 mm cable
2VP 015 074-101 With direction indicator failure control
2VP 015 074-001 Without direction indicator failure control

With 6-pin DEUTSCH DT connection
2VP 015 075-101 With direction indicator failure control
2VP 015 075-001 Without direction indicator failure control

DuraLED
LED, 12/24 V, 5 lamp functions (reflex reflector, tail light, stop light, reversing light, direction indicator), for vehicles in accordance with GGVS/ADR, horizontal surface mounting
W x H  224.5 mm x 104.5 mm
"Horizontal" version, 500 mm cable
2VP 328 630-011 Left/right installation side (wiping direction indicator light)
2VP 328 630-021 Left/right installation side (flashing direction indicator light)

"Vertical" version, 500 mm cable
2VP 328 630-001 Left/right installation side (flashing direction indicator light)

NEW

Full-LED multi-function rear lamp
LED, 24 V, ECE 146R-00 5934, 5 lamp functions (tail light, triangular reflex reflector, stop light/bulb: direction indicator, rear fog light), central 7-pin DIN bayonet connector, 2-pin AMP SUPERSEAL connector for auxiliary lighting functions, ballast according to DIN ISO 13207, IP 6K9K
W x H x D  410 mm x 150 mm x 55.5 mm

For trucks
2VP 340 970-701 Left/right installation side (flashing direction indicator light)
2VP 340 970-711 Left/right installation side (wiping direction indicator light)

For trailers
2VP 340 970-031 Left/right installation side (flashing direction indicator light)
2VP 340 970-041 Left/right installation side (wiping direction indicator light)
# REVERSE LAMPS

## FUNCTION AND SAFETY

### Power Beam 1000
- LED reverse lamp, upright/pendant surface mounting,
- multi-voltage 9 – 32 V, 6 LEDs, power consumption 14 W,
- light output 850 lm, degree of protection IP 6K9K, IP 6K8, ECE R10 and ECE R23 approval, CISPR 25 Class 5,
- aluminium housing
- **W x H x D** 145 mm x 120 mm x 68 mm
- **2ZR 996 188-121** DEUTSCH DT connector

### Power Beam 1000 compact
- LED reverse lamp, upright/pendant surface mounting,
- multi-voltage 10.5 – 32 V, 6 LEDs, power consumption 12 W, light output 1,000 lm, degree of protection IP 6K9K, IP 6K7, ECE R10 and ECE R23 approval, CISPR 25 Class 5,
- corrosion-free plastic housing
- **W x H x D** 112 mm x 126 mm x 68 mm
- **2ZR 996 188-521** DEUTSCH DT connector

### Q90 LED compact
- LED reverse lamp, upright/pendant surface mounting,
- multi-voltage 9 – 32 V, 4 LEDs, power consumption 15 W,
- light output 1,200 lm, degree of protection IP 6K9K/IP 6K7, ECE R10 and ECE R23 approval, CISPR 25 Class 5,
- heat conductive plastic housing
- **W x H x D** 95 mm x 121 mm x 65 mm
- **2ZR 996 284-501** 2,000 mm cable
- **2ZR 996 284-511** 500 mm cable, DEUTSCH DT connector
Not every work lamp may be used as a reverse lamp | Work lamps must meet specific criteria to pass ECE R23 homologation as reverse lamps. Reverse lamps from HELLA meet these criteria and so can be used on the roads. The special cover lenses direct the light beams to the sides specifically to enable optimum visibility when reversing.

**IT’S ALL ABOUT THE MARKING**

The reverse lamp markings (on the cover lens):

1. **Type approval marking**: 00 AR stands for reverse lamp
2. **Type approval number**: The device may only be mounted as a reverse lamp if it has a type approval number (e.g. R23-003902)
3. **ECE marking**: With country code, e.g. 1 = Germany

**ECO18 LED**
LED reverse lamp, upright/pendant surface mounting, multi-voltage 10.5 – 32 V, 4 LEDs, power consumption 18 W, light output 1,350 lm, degree of protection IP 6K9K, IP 6K7, ECE R10 and ECE R23 approval, CISPR 25 Class 5, die-cast aluminium housing

W x H x D 98 mm x 145 mm x 70 mm

2ZR 996 479-501 500 mm cable
2ZR 996 479-511 DEUTSCH DT connector

**Flat Beam 500**
LED reverse lamp, upright/pendant surface mounting, multi-voltage 9 – 32 V, 4 LEDs, power consumption 7 W, light output 550 lm, degree of protection IP 6K9K/IP 6K7, ECE R10 and ECE R23 approval, CISPR 25 Class 5, glass-fibre-reinforced plastic housing

W x H x D 113 mm x 144 mm x 48 mm

2ZR 995 193-051 2,000 mm cable

**Repulse Pro**
LED reverse lamp, upright, pendant or rear surface mounting, multi-voltage 10 – 32 V, 3 LEDs, power consumption 11 W, degree of protection IP 6K9K, ECE R10 and ECE R23 approval, CISPR 25 Class 5, plastic housing

W x H x D 110 mm x 110 mm x 48 mm

2ZR 012 456-221 3,500 mm cable and 6.3 mm flat receptacles
REVERSE LAMPS

Module 70 LED Gen. 3
LED reverse lamp, upright/pendant surface mounting, multi-voltage 9 – 32 V, 4 LEDs, power consumption 13 W, light output 800 lm, degree of protection IP 6K9K, IP 6K7, ECE R10 and ECE R23 approval, CISPR 25 Class 5, grey powder-coated aluminium housing
W x H x D 83 mm x 123 mm x 74 mm
2ZR 996 376-091 2,000 mm cable

Module 70 LED Gen. 3.2
LED reverse lamp, upright/pendant surface mounting, multi-voltage 9 – 32 V, 3 LEDs, power consumption 20 W, light output 1,800 lm, degree of protection IP 6K9K, IP 6K8, ECE R10 and ECE R23 approval, CISPR 25 Class 5, die-cast aluminium housing with CoroSafe coating
W x H x D 83 mm x 123 mm x 74 mm
2ZR 996 576-501 2,000 mm cable

Module 70 LED Gen. 3.2 compact
LED reverse lamp, upright/pendant surface mounting, multi-voltage 9 – 32 V, 12 LEDs, power consumption 13 W, light output 1,500 lm, degree of protection IP 6K9K, IP 6K8, ECE R10 and ECE R23 approval, CISPR 25 Class 5, corrosion-free plastic housing
W x H x D 83 mm x 119 mm x 74 mm
2ZR 996 576-621 2,000 mm cable
# REVERSE LAMPS

## HELLA VALUEFIT

### PS1000 LED

- **Upright / pendant mounting, multi-voltage 10 – 30 V, 9 LEDs, power consumption 9 W, light output 1,000 lm, protection class IP 67 / IP 69K, ECE R10 approval, connection 800 mm cable, corrosion-free plastic housing**

<table>
<thead>
<tr>
<th>W x H x D</th>
<th>99.4 mm x 128.5 mm x 34 mm</th>
</tr>
</thead>
</table>

| 2ZR 357 114-501 | 800 mm cable |

### TS1700 LED

- **Upright / pendant mounting, multi-voltage 10 – 30 V, 4 LEDs, power consumption 24 W, light output 1,700 lm, protection class IP 67 / IP 69K, ECE R10 approval, aluminium housing, thermal management system**

<table>
<thead>
<tr>
<th>W x H x D</th>
<th>70.5 mm x 95 mm x 41 mm</th>
</tr>
</thead>
</table>

| 2ZR 357 110-501 | 200 mm cable |
| 2ZR 357 110-511 | 3,000 mm cable |
| 2ZR 357 110-521 | 200 mm cable, DEUTSCH DT connection |
| 2ZR 357 110-531 | 200 mm cable with AMP SUPERSEAL |

### Thermal management system

- 1,000 lm
- 1,700 lm
- 2,000 lm

- –40 °C
- –25 °C
- +25 °C
- +50 °C

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*Thermal management system*
SINGLE-FUNCTION LAMPS

LED position lamp
24 V, 2 LEDs, power consumption 0.5 W, degree of protection IP 6K9K, 5881 approval, 2 lamp functions (position light with reflex reflector), with 500 mm cable, open end, approved for vehicles in accordance with GGVS/ADR
W x H 111.3 mm x 51.2 mm
2PG 345 600-401 Horizontal surface mounting

LED tail lamp
24 V, 1 LED, power consumption 1.2 W, degree of protection IP 6K9K, 1395 / 1398 approval, 2 lamp functions (tail light with reflex reflector, can also be used as a clearance lamp with reflex reflector), with 500 mm cable, approved for vehicles in accordance with GGVS/ADR
W x H 130 mm x 32 mm
2PG 008 645-971 Horizontal and vertical surface mounting

LED rubber arm clearance lamp
24 V, 4 LEDs, power consumption 1.8 W, degree of protection IP 6K9K, 1392 approval, 3 lamp functions (tail light, side marker light and position light), with 3,000 mm cable and flat receptacle 6.3 mm, approved for vehicles in accordance with GGVS/ADR
W x H 111.3 mm x 51.2 mm
2XS 011 744-031 Vertical surface mounting, left
2XS 011 744-041 Vertical surface mounting, right

Clearance lamp
12/24 V, power consumption 4 W, degree of protection IP 5K9K, 31407 approval, 1 lamp function (clearance light), bulb not included in scope of delivery, approved for vehicles in accordance with GGVS/ADR
W x H x D 111.3 mm x 92 x 37 mm
2XS 005 020-002 Side/rear surface mounting
2XS 005 020-011 Side/rear surface mounting, with rubber pendulum 55 mm x 42 mm

LED tail lamp/clearance lamp
24 V, 2 LEDs, power consumption 1 W, degree of protection IP 6K9K, 9808 approval, 2 lamp functions (tail light with reflex reflector), with 5,000 mm cable, open end, approved for vehicles in accordance with GGVS/ADR
W x H 111.3 mm x 51.2 mm
2TM 345 600-317 Horizontal surface mounting
LED licence plate lamp
24 V, power consumption 1 W, ECE R91 approval, 1 lamp function (clearance light), bulb not included in scope of delivery, approved for vehicles in accordance with GGVS/ADR

LED licence plate lamp
24 V, 4 LEDs, power consumption 1 W, ECE R91 approval, 1 lamp function (clearance light), bulb not included in scope of delivery, approved for vehicles in accordance with GGVS/ADR

LED licence plate lamp
24 V, 2 LEDs, power consumption 1 W, ECE R91 approval, 2 lamp functions (side marker light with reflex reflector), with 500 mm cable, open end, approved for vehicles in accordance with GGVS/ADR

LED lifting platform direction indicator
24 V, 4 LEDs, power consumption 8 W, ECE R91 approval, 1 lamp function (direction indicator light), without pulse for direction indicator failure control, approved for vehicles in accordance with GGVS/ADR

LED interior lamp
Surface mounting, 12/24 V, power consumption 3.3 W, 1 lamp function (interior light), especially suitable for flat installation conditions

LED side marker lamp
24 V, power consumption 1 W, ECE R91 approval, 2 lamp functions (side marker light with reflex reflector), with 500 mm cable, open end, approved for vehicles in accordance with GGVS/ADR

LED side marker lamp
24 V, 2 LEDs, power consumption 1.2 W, degree of protection IP 6K9K, 5881 approval, 2 lamp functions (side marker light with reflex reflector), ECE R91, ECE R3 and ECE R10 approval

LED side marker lamp
24 V, 2 LEDs, power consumption 1.2 W, degree of protection IP 6K9K, 5881 approval, 2 lamp functions (side marker light with reflex reflector), ECE R91, ECE R3 and ECE R10 approval

LED side marker lamp
24 V, 2 LEDs, power consumption 1.2 W, degree of protection IP 6K9K, 5881 approval, 2 lamp functions (side marker light with reflex reflector), ECE R91, ECE R3 and ECE R10 approval

LED side marker lamp
24 V, 2 LEDs, power consumption 1 W, degree of protection IP 6K9K, 5881 approval, 2 lamp functions (side marker light with reflex reflector), ECE R91, ECE R3 and ECE R10 approval

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LED side marker lamp
24 V, 2 LEDs, power consumption 1 W, degree of protection IP 6K9K, 5881 approval, 2 lamp functions (side marker light with reflex reflector), ECE R91, ECE R3 and ECE R10 approval
### LED position lamp
- **24 V**, power consumption 0.4 W, approx. current consumption 0.03 A (12 V)/0.015 A (24 V), 8114 approval, 1 lamp function (position light), degree of protection IP 67
- **W x H x D**: 65 mm x 16 mm x 11 mm
- **2PG 357 010-121**
- 6.3 mm flat plug connection and 150 mm cable

### LED auxiliary stop lamp
- **12 V**, power consumption 2.5 W, 7981 approval, 1 lamp function (stop light)
- **W x H x D**: 284 mm x 30 mm x 20 mm
- **2DA 357 015-001**
- 250 mm cable

### LED clearance lamp
- **12/24 V**, power consumption 1.6 W, E9 6753 approval, 3 lamp functions (position light with tail light and side marker light)
- **W x H x D**: 148.6 mm x 143.7 mm x 61.5 mm
- **2XS 357 007-011** Left, side surface mounting 250 mm cable
- **2XS 357 007-021** Right, side surface mounting, 250 mm cable

### LED side marker lamp
- **12 V**, power consumption 0.5 W, 14802 approval, 2 lamp functions (side marker light with reflex reflector), degree of protection IP 67
- **W x H**: 108 mm x 44 mm
- **2PS 357 009-001**
- 6.3 mm flat receptacles and 150 mm cable

### LED clearance lamp
- **12/24 V**, power consumption 1 W, 6754 approval, 2 lamp functions (position light with tail light)
- **W x H x D**: 86 mm x 67.2 mm x 44.3 mm
- **2XS 357 003-001**
- 200 mm cable

### LED side marker lamp
- **12/24 V**, power consumption 1 W (12 V)/2 W (24 V), 1553 approval, 2 lamp functions (side marker light with reflex reflector), degree of protection IP 67
- **W x H**: 111 mm x 51 mm x 20 mm
- **2PS 357 008-001**
- 150 mm cable
- **2PS 357 008-011** With bracket, 500 mm cable
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### AUXILIARY HIGH BEAM HEADLAMPS

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<td>2RL 014 565-211</td>
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SOCIAL MEDIA

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Instagram | On Instagram, we connect on the community channel ‘@hella.experiences’ with all those who have consciously chosen us and, therefore, quality products from HELLA for their vehicle, and who share this creatively and expressively with the whole world.

Facebook | Current information and promotions

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