



BEACONS



www.hella.com/truck
www.hella.com/agriculture



HELLA BEACONS

PLAY IT SAFE - WITH BEACONS FROM HELLA!

Whenever a special optical warning against dangerous situations is required, beacons are in the limelight. This is not restricted to rescue missions but also occurs during assignments with large, heavy and/or slow vehicles, such as harvesters or heavy-duty transport. HELLA beacons have a strong warning effect, which signals to other road users: Attention, please be considerate – work is being done around the vehicle. Therefore, our beacons do their part in providing greater safety. This safety is also achieved thanks to the optimal light focus and distribution, the resulting long range and the very high luminous intensity of the applied LED technology.

In addition, HELLA beacons are characterised by outstanding quality in terms of workmanship and stability – as proven by their long lifetime.

Do not leave safety up to chance – put your trust in HELLA beacons.

FIXED ATTACHMENT



PRACTICAL SCREW ATTACHMENT POINTS

Almost all HELLA beacons have the same spacing and feature the same number of screw attachment points (pitch circle diameter: 130 mm). Consequently, it is simple to exchange or replace them with a new beacon model. Halogen and LED lighting technology models also feature the same attachment points. As a result, it is very easy to replace a halogen beacon that was purchased for fixed mounting with an LED beacon that is also going to be a permanent fixture.



PIPE SOCKET MOUNTING

SUITABLE FOR DIN PIPES

The varying shapes of vehicle roofs, extensions or restricted installation spaces do not always permit fixed mounting of beacons. The beacon must be adequately visible to achieve the statutory 360° warning effect. Angled pipes are suitable for this purpose. These are fixtures that can, for example, be attached to the side of the vehicle to make sure that the beacon protrudes from the vehicle roof and is easily visible from all sides. Our beacons with pipe socket mounting are suitable for pipe diameters of 24 mm and are perfect for widely used DIN pipes. These can also be purchased as accessories from HELLA in a variety of variants.



MAGNET MOUNTING

SLIM DESIGN, HIGH DEGREE OF RETAINING FORCE

The slim shape of the magnetic adapter makes it fairly inconspicuous. It is enhanced by a rubber sheath to provide scratch resistance and to protect the vehicle's roof. Our high-performance neodymium magnets boast a very high retention force and, depending on the beacon, can be used up to a top speed of 200 km/h*. This retention force is available within an ample temperature range between -20°C to +60°C.

OUTSTANDING ANTI-SLIP CHARACTERISTICS

The rubber material used is particularly soft, thus creating a sufficient resistance and lending magnets a particularly high anti-slip resistance. As a result, the vehicle's paintwork is well protected from scratches and the magnet sheath copes perfectly even in tough weather conditions and low temperatures as well as when exposed to UV radiation.

* For instance, applies to the K-LED 2.0 magnet version. However, please note the information about the relevant beacon.

K-LED 2.0

Height 88 mm, Ø 169 mm*
Height 161 mm, Ø 165 mm*

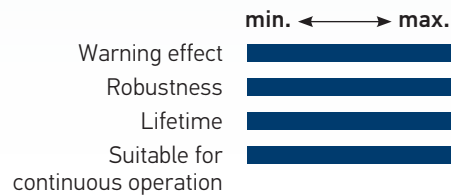


Multi-voltage 10-32 V, automatic change between day and night mode, rotating or flashing light function, upright position of use, amber polycarbonate light dome, total current consumption 0.45 A (12 V) to 2.5 A (24 V), power consumption Ø 30 W/max. 72 W, degree of protection IP 6K7/IP 6K9K, SAE Class 1, ECE R65 and ECE R10 approval, CISPR 25 Class 5



- 2XD 011 557-101 Fig. 1 Fixed mounting
- 2XD 011 557-201 Fig. 2 Pipe socket mounting
- 2XD 011 557-301 Fig. 3 Magnetic mounting

- Also available as a version with a black housing:
- 2XD 011 557-841 Fig. 4 Fixed mounting
 - 2XD 011 557-811 Fig. 5 Pipe socket mounting



K-LED Rebelution

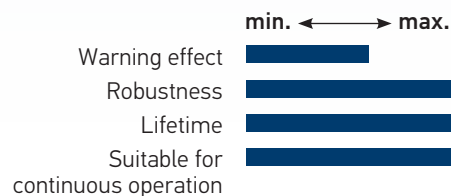
Height 60 mm, Ø 149 mm*
Height 105 mm, Ø 149 mm**



Multi-voltage 12/24 V, rotating or flashing light function, upright position of use, polycarbonate light ring, total current consumption of rotating light 1.1 A (12 V)/0.5 A (24 V), power consumption of rotating light 12 W, total current consumption of flashing light 3.1 A (12 V)/1.6 A (24 V), power consumption of flashing light Ø 14 W, max. 38 W, degree of protection IP 6K7/IP 6K9K, SAE Class 2, ECE R65 and ECE R10 approval, CISPR 25 Class 3 (rotating), CISPR 25 Class 5 (flashing)



- 2XD 455 255-001 Fig. 1 Fixed mounting, flashing
- 2RL 455 256-001 Fig. 1 Fixed mounting, rotating
- 2XD 455 255-011 Fig. 2 Pipe socket mounting, flashing
- 2RL 455 256-011 Fig. 2 Pipe socket mounting, rotating
- 2XD 455 255-021 Fig. 3 Magnetic mounting, flashing
- 2RL 455 256-021 Fig. 3 Magnetic mounting, rotating



Rota LED Compact

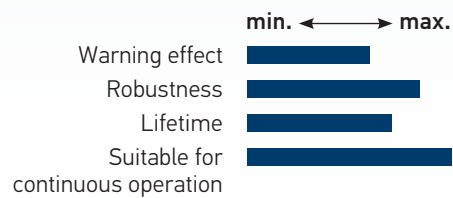
Height 119 mm, Ø 165 mm*
 Height 164 mm, Ø 165 mm**



Multi-voltage 10-30 V, rotating or flashing light function, upright position of use, amber polycarbonate light dome, power consumption Ø 10 W/max. 30 W, degree of protection IP 6K7/IP 6K9K, SAE Class 2, ECE R65 and ECE R10 approval, CISPR 25 Class 5



- 2XD 013 979-001 Fig. 1 Fixed mounting, flashing
- 2RL 014 979-001 Fig. 1 Fixed mounting, rotating
- 2XD 013 979-011 Fig. 2 Flexible pipe socket mounting, flashing
- 2RL 014 979-011 Fig. 2 Flexible pipe socket mounting, rotating
- 2XD 013 979-021 Fig. 3 Magnetic mounting, flashing
- 2RL 014 979-021 Fig. 3 Magnetic mounting, rotating



K-LED 1.2

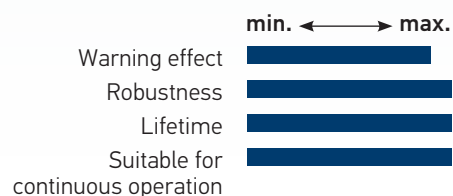
Height 123 mm, Ø 169.5 mm*
 Height 196.5 mm, Ø 169.5 mm**



Multi-voltage 10-30 V, rotating or flashing light function, upright position of use, amber polycarbonate light dome, total current consumption of rotating light 1.6 A (12 V)/0.8 A (24 V), power consumption of rotating light max 20 W, total current consumption of flashing light 1.8 A (12 V)/0.9 A (24 V), power consumption of flashing light Ø 22 W, max. 53 W, degree of protection IP 6K7/IP 6K9K, SAE Class 2, ECE R65 and ECE R10 approval, CISPR 25 Class 5



- 2XD 012 984-301 Fig. 1 Fixed mounting, flashing
- 2RL 012 983-301 Fig. 1 Fixed mounting, rotating
- 2XD 012 984-401 Fig. 2 Pipe socket mounting, flashing
- 2RL 012 983-401 Fig. 2 Pipe socket mounting, rotating

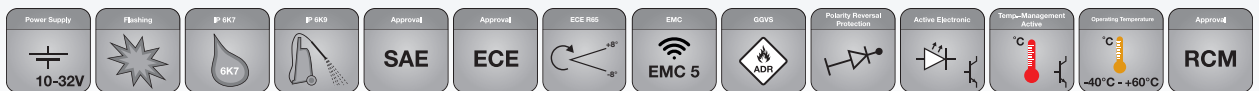




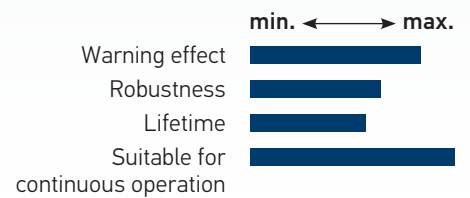
K-LED NANO

Height 68 mm, Ø 146 mm*
Height 125 mm, Ø 109 mm**

Multi-voltage 10-32 V, flashing light function, upright position of use, amber polycarbonate light dome, total current consumption 1.6 A (12 V)/0.8 A (24 V), power consumption max. 19 W, degree of protection IP 6K7/IP 6K9, SAE Class 1, ECE R65 and ECE R10 approval, CISPR 25 Class 5



- 2XD 066 146-001 Fig. 1 Fixed mounting
- 2XD 066 146-011 Fig. 2 Pipe socket mounting



FL Mini

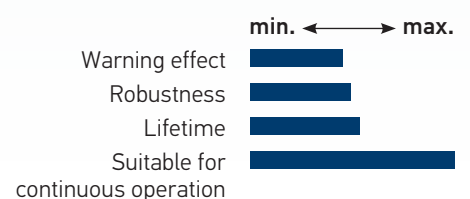
Height 111.5 mm, Ø 98 mm

Multi-voltage 10-80 V, flashing light function, upright position of use, polycarbonate light dome, power consumption max. 8 W, degree of protection IP 67/IP 9K, SAE J845 Class 3, UL certified and ECE R10 approval



- 2XD 014 959-111 Fixed mounting, flashing

Recommended for industrial trucks on commercial/non-public premises. Not approved for use on public roads in the European Union!
Outside the European Union, please observe the national requirements.



* Dimensions for fixed attachment variant
** Dimensions for pipe socket mounting variant

KL 7000

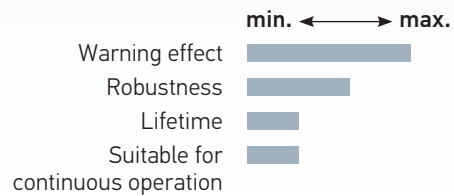
Height 194 mm, Ø 155 mm*
 Height 240 mm, Ø 155 mm** (Fig. 3)



With H1 bulb, rotating light function, upright position of use, amber polycarbonate light dome, power consumption max. 55 W/12 V, 70 W/24 V and 42 W/230 V, degree of protection IP 5K4K/IP X9K, SAE Class 2, ECE R65 and ECE R10 approval, CISPR 25 Class 3



- 2RL 008 061-101 Fig. 1 Fixed mounting, 12 V
- 2RL 008 061-111 Fig. 1 Fixed mounting, 24 V
- 2RL 008 064-101 Fig. 1 Fixed mounting, 230 V
- 2RL 008 060-101 Fig. 2 Pipe socket mounting, 12 V
- 2RL 008 060-111 Fig. 2 Pipe socket mounting, 24 V
- 2RL 008 063-101 Fig. 3 Flexible pipe socket mounting, 12 V
- 2RL 008 063-111 Fig. 3 Flexible pipe socket mounting, 24 V
- 2RL 008 062-101 Fig. 4 Magnetic mounting, 12 V
- 2RL 008 062-111 Fig. 4 Magnetic mounting, 24 V



Rotafix/Rotaflex

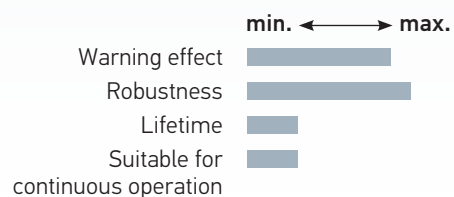
Height 174 mm, Ø 130 mm*
 Height 222 mm, Ø 130 mm**



With H1 bulb, rotating light function, upright position of use, amber polycarbonate light dome, power consumption max. 55 W/12 V and max. 70 W/24 V, degree of protection IP 5K4K/IP X9K, SAE Class 2, ECE R65 and ECE R10 approval, CISPR 25 Class 3



- 2RL 007 337-001 Fig. 1 Fixed mounting, 12 V
- 2RL 007 337-011 Fig. 1 Fixed mounting, 24 V
- 2RL 006 846-001 Fig. 2 Flexible pipe socket mounting, 12 V
- 2RL 006 846-011 Fig. 2 Flexible pipe socket mounting, 24 V
- 2RL 007 337-021 Fig. 3 Magnetic mounting, 12 V
- 2RL 007 337-031 Fig. 3 Magnetic mounting, 24 V





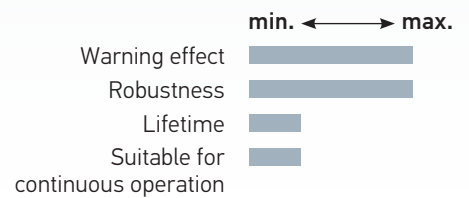
Rota Compact

Height 157 mm, Ø 132 mm*
Height 217 mm, Ø 135 mm**

With H1 bulb, rotating light function, upright position of use, amber polycarbonate light dome, power consumption max. 55 W/12 V and max. 70 W/24 V, degree of protection IP 5K4K/IP X9K, SAE Class 2, ECE R65 and ECE R10 approval, CISPR 25 Class 3



2RL 009 506-201	Fig. 1	Fixed mounting, 12 V
2RL 009 506-211	Fig. 1	Fixed mounting, 24 V
2RL 009 506-001	Fig. 2	Flexible pipe socket mounting, 12 V
2RL 009 506-011	Fig. 2	Flexible pipe socket mounting, 24 V
2RL 009 506-301	Fig. 3	Magnetic mounting, 12 V
2RL 009 506-311	Fig. 3	Magnetic mounting, 24 V



HELLA VALUEFIT

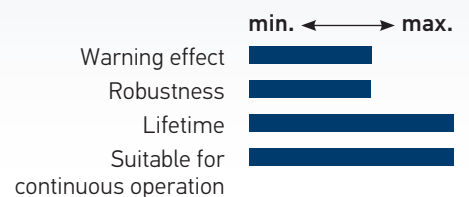
SLIM BEACON

Height 50 mm, Ø 142 mm

Multi-voltage 10-30 V, flashing light function, upright position of use, amber polycarbonate light cover, total current consumption 2.1 A (12 V)/2.1 A (24 V), power consumption Ø 10 W, max. 24 W, degree of protection IP 67/IP 69K, SAE Class 1, ECE R65 and ECE R10 approval



2XD 357 980-001	Fixed mounting
-----------------	----------------

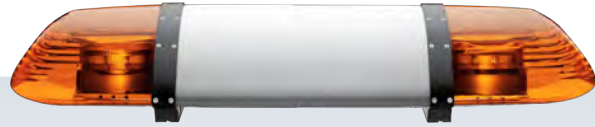


* Dimensions for fixed attachment variant

** Dimensions for pipe socket mounting variant

OWS-E-LED

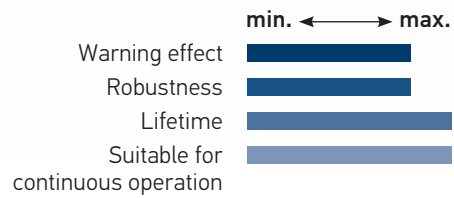
Height 177 mm, width 1000/1400/1600 mm



Multi-voltage 10-30 V, optical LED warning system in three different widths, flashing light function, upright position of use, total current consumption 2 x 1.3 A (12 V) and 2 x 0.7 A (24 V), power consumption max. 32 W, degree of protection IP 5K4K/IP 9K (OWS)/IP 6K7K/IP 9K (electronics), ECE R10 approval, CISPR 25 Class 5



- 2RL 007 900-311 1000 mm wide
- 2RL 007 900-321 1400 mm wide
- 2RL 007 900-331 1600 mm wide

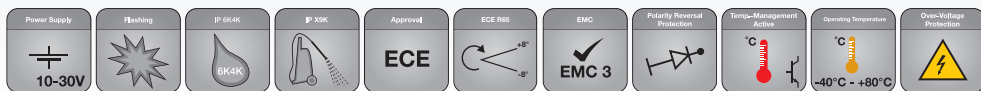


Modular Lightbar

Height 52 mm, width 1067 mm/1372 mm

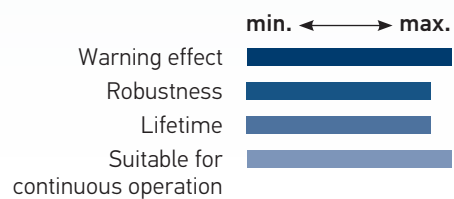


Multi-voltage 10-30 V, optical LED warning system in the form of a lightbar in different widths, flashing light function, upright position of use, incl. bracket for raised mounting, 4,000 mm cable with open cable end, power consumption: 5 modules Ø 80W, 7 modules Ø 90W, degree of protection IP 6K4K/IP X9K, ECE R10 approval, CISPR 25 Class 3, RCM



- 2RL 014 567-011 1067 mm width (5 centre modules)
- 2RL 014 567-021 1372 mm width (7 centre modules)

Incl. wired control unit



Micro Lightbar

Height 50 mm, width 255 mm



Multi-voltage 10-30 V, rotating or flashing light function (user-defined flashing pattern), polycarbonate light dome, amber warning signal, clear or amber cover lens, upright position of use, total current consumption approx. 6.2 A (12 V)/ approx. 2.9 A (24 V), power consumption 66-72 W, degree of protection IP 6X/IP X4K/IP X9K, ECE R65 and ECE R10 approval, CISPR 25 Class 3

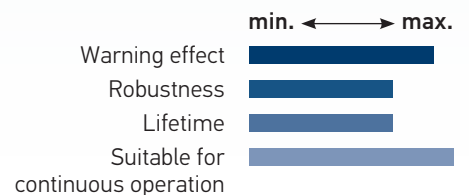


Amber cover lens

- 2RL 014 566-201 Screw mounting, connecting cable 500 mm
- 2RL 014 566-211 Mounting by bracket, connecting cable 500 mm
- 2RL 014 566-221 Magnetic mounting, connecting cable 2,500 mm

Clear cover lens

- 2RL 014 566-001 Screw mounting, connecting cable 500 mm
- 2RL 014 566-011 Mounting by bracket, connecting cable 500 mm
- 2RL 014 566-021 Magnetic mounting, connecting cable 2,500 mm



Mini Lightbar

Height 50 mm, width 400 mm



Multi-voltage 10-30 V, rotating or flashing light function (user-defined flashing pattern), polycarbonate light dome, amber warning signal, clear or amber cover lens, upright position of use, total current consumption approx. 6.1 A (12 V)/ approx. 2.8 A (24 V), power consumption max. 70 W, degree of protection IP 6X/IP X4K/IP X9K, ECE R65 and ECE R10 approval, CISPR 25 Class 3

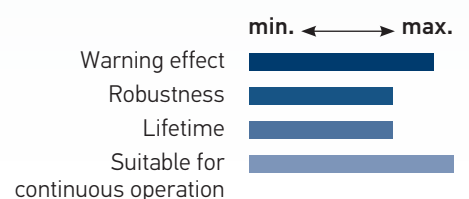


Amber cover lens

- 2RL 014 565-201 Screw mounting, connecting cable 500 mm
- 2RL 014 565-211 Mounting by bracket, connecting cable 500 mm
- 2RL 014 565-221 Magnetic mounting, connecting cable 2,500 mm

Clear cover lens

- 2RL 014 565-001 Screw mounting, connecting cable 500 mm
- 2RL 014 565-011 Mounting by bracket, connecting cable 500 mm
- 2RL 014 565-021 Magnetic mounting, connecting cable 2,500 mm

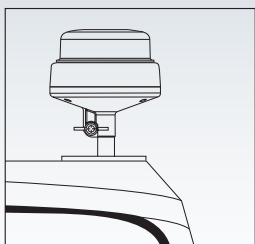


Accessories

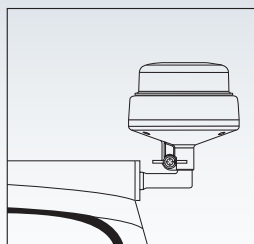
Beacons

	<p>8HG 002 365-001 1-pin</p> <p>8HG 006 294-101 2-pin</p>	Socket pipe for welding on, straight, height 100 mm
	<p>8HG 006 294-011 1-pin</p> <p>on request 2-pin</p>	Socket pipe with base plate for screw attachment, straight, height 126 mm
	<p>8HG 006 294-051 1-pin</p> <p>8HG 006 294-091 2-pin</p>	Socket pipe with screw attachment, height approx. 100 mm,
	<p>8HG 006 294-031 1-pin</p> <p>8HG 006 294-141 2-pin</p>	Socket pipe for screw attachment, adjustable, with base plate, height 105 mm
	<p>Distance 50 mm, height 100 mm</p> <p>8HG 006 294-111 1-pin</p> <p>Distance 90 mm, height 100 mm</p> <p>8HG 006 294-021 1-pin</p> <p>for RotaLED Compact</p> <p>Distance 120 mm, height 105 mm,</p> <p>8HG 006 294-171 1-pin</p> <p>on request 2-pin</p>	Socket pipe for screw attachment, angled, with base plate
	<p>8HG 006 294-041 1-pin</p> <p>on request 2-pin</p>	Socket pipe for screw attachment, mounting on the rear of the cab, with telescopic holder, height 700-1,000 mm
	<p>8HG 005 436-041 for K-LED 1.2 and 2.0</p> <p>8HG 223 805-001 for RotaLED Compact,</p> <p>8HG 863 302-021 for K-LED Blizzard and K-LED Rebellion</p>	Pipe socket adapter

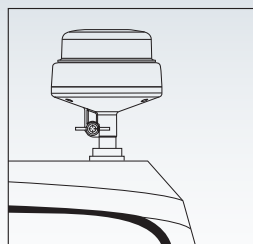
Mounting examples



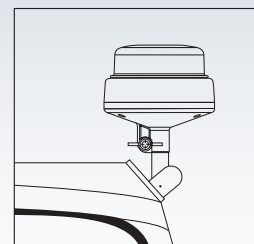
Socket pipe with base plate for screwing on



Socket pipe, angled, with base plate for screwing onto side



Socket pipe with screw mounting



Socket pipe, pivoting

Electromagnetic compatibility (EMC)

WHAT IS EMC (ECE R10)?

Electromagnetic compatibility (EMC) describes two factors that are major quality features for optical signalling systems:

- **Radiated interference:** the limitation of radiated electromagnetic interference to a level that guarantees the operation of other devices in the environment without interference.
- **Immunity to interference:** guaranteeing sufficiently high resistance to electro-magnetic interference acting from the outside

The legal foundations for this are CISPR 25 as well as ISO 7637 and 11452.



CISPR 25 PROTECTION CLASS STANDARD

CISPR 25 is the standard for emitted interference: it applies a classification of 1 to 5. In doing so, category 5 products satisfy the most demanding requirements and are even suitable for surface mounting situations directly next to an aerial. The statutory standards are met by category 3, which guarantees adequate protection in standard practice. Most HELLA lighting systems satisfy at least category 3, many even category 5, and guarantee absolute functional safety in all application situations.

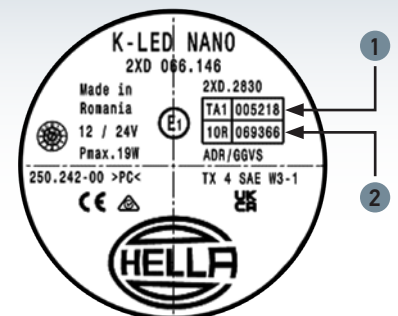
ECE R10: Minimum standard

CISPR 25 Class 3: supplementary standard

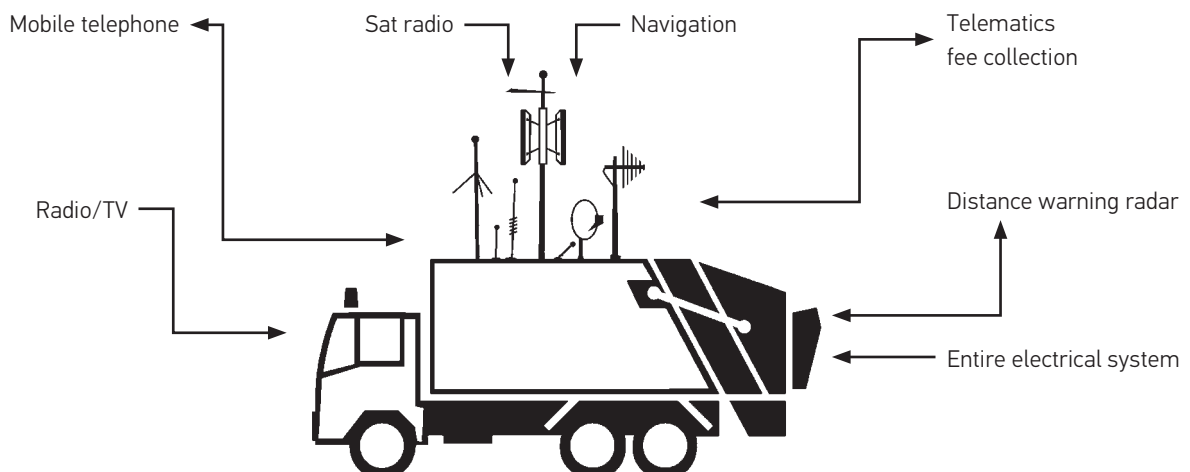
CISPR 25 Class 5: Complies with automotive standard

Only beacons that have both of these test numbers are authorised for use on public roads.

- 1 ECE-R65
- 2 ECE-R10



ELECTROMAGNETIC INTERACTIONS



The choice is yours – the HELLA beacon range

The strong warning effect of HELLA beacons sends out signals when it counts. Depending on the desired surface mounting and application situation, you can choose between different criteria and performance factors.

WARNING EFFECT:

Safety through visibility! The optimal light bundling and distribution offers high range and luminous intensity. LED beacons have a particularly high warning effect.

ROBUSTNESS:

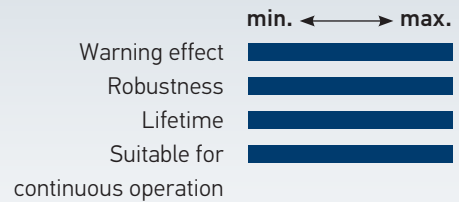
The material of the housing and the light dome, the workmanship, the lighting technology and the design are decisive for the robustness. This is achieved, for example, with polycarbonate housings and light domes, fully encapsulated beacons and flexible pipe socket mounting (which return to their original positions even after contact with branches, etc.).

LIFETIME:

The technology used as well as the material influence the lifetime of the beacons. LED beacons are particularly durable.

SUITABLE FOR CONTINUOUS OPERATION:

Safety when it counts. The range includes the right beacon for every duration of use. Even in 24/7 continuous operation.



IP degree of protection

WHAT IS AN IP DEGREE OF PROTECTION?

IP stands for International Protection. The IP degrees of protection are determined according to DIN 40 050, Part 9. The purpose of the standard is to provide an exact definition of the electrical equipment of vehicles against the ingress of solid foreign objects including dust, and against the ingress of water. The varying degrees of protection important for signalling systems are explained in more detail below.

PROTECTION CLASS IP 5K4K

Dust may only penetrate to such an extent that the function and safety are not impaired. Water splashing against the housing from any direction at increased pressure must have no harmful effects: Water pressure approx. 4 bar.

PROTECTION CLASS IP 9K

Water that is directed onto the housing during high pressure/steamjet cleaning must have no harmful effects: Water pressure approx. 80-100 bar.

PROTECTION CLASS IP 6K7

Dust must not penetrate. Even during temporary immersion, no water is to penetrate. HELLA products meet the highest requirements and are optimally protected against all weather conditions.

Features

Description

Vehicle electrical system voltage



Defines the power supply of the lamp. This can be 12 V, 24 V or a flexible voltage range for multi-voltage (8 – 33 V). "Multi-voltage" is the most flexible: it requires fewer versions, but has more electronic components and is therefore more expensive.

Dust and water protection IP



High-pressure jet cleaner resistant

International Protection (IP) according to DIN 40050, Part 9. Specific definition for road vehicles.
 5K = dust protected!
 6K = dustproof
 9K = protection against water during high-pressure / steamjet cleaning.

Thermal management



Active

Active thermal management enables a very long lifetime.

Operating temperature



Thermal management and an optimised housing design guarantee full functioning for all operating temperatures as a result of product testing ranging from -40° C to +60° C, for example.

Continuous operation



Suitable for continuous operation without a break.

Energy Saving



Using LEDs is particularly energy efficient and offers potential for energy and cost savings compared to halogen technology.

Polarity reversal protection



Even if the connecting cable is connected with reverse polarity, there is still no danger to the electronics.

Overvoltage protection



Supplement to electronics to protect the LED against high voltages/currents in the vehicle network as per ISO 7637-2.

Approved for dangerous goods transport



Lamp approved for dangerous goods transport according to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

Electromagnetic compatibility



Electromagnetic compatibility (EMC) tested and EU type approval issued.

ECE-R65



Defines the light values to be achieved, the light distribution and also colour location of beacons. Only beacons that fulfil ECE R65 can be used on public roads.

HELLA GmbH & Co. KGaA

Rixbecker Straße 75
59552 Lippstadt, Germany
Tel.: +49 2941 38-0
Fax: +49 2941 38-7133
Internet: www.hella.com

© HELLA GmbH & Co. KGaA, Lippstadt
922 999 142-866 J01790/KB/10.21/0.1
Subject to technical and price modifications
Printed in Germany