



**K-LED REBELUTION**



THE NEW HELLA DESIGN BEACON.



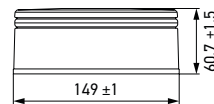
# K-LED REBELUTION

## HELLA UNVEILS THE NEXT GENERATION OF LED BEACONS

Innovation and change – that's what the K-LED Rebelution beacon stands for. Light has been refashioned, and technology developed further: With its minimalist light exit area this revolutionary design is setting new standards in the beacon market.

The most striking feature of the K-LED Rebelution is its unique and unconventional design. It manages without a classical dome and impresses with its discreet, futuristic styling. At only 60 mm in height and 149 mm in diameter, the beacon is extremely compact in size, so making ideal for vehicles subject to a height restriction.

The K-LED Rebelution is suitable as a 1:1 replacement for all other permanently installed versions of HELLA beacons. The identical hole spacing means it is quick to replace.



Fixed mounting,  
flashing

**2XD 455 255-001**

Fixed mounting,  
rotating

**2RL 455 256-001**

Product available shortly.  
More versions on request.



The image of the beacon is actually life-size (scale 1:1).







## WARNING SIGNAL AND MOUNTING VARIANTS

The specially developed LED technology of the K-LED Rebelution enables a permanently visible warning signal to be produced for the first time when the lighting function is rotating, as well as an even stronger circumferential signal. The rotating light creates a 360° warning effect without any dazzle. It is particularly suitable for use in urban areas and for continuous operation on building sites and allows hazardous situations to be detected in good time.

The flashing variant of the K-LED Rebelution generates an unmistakable double-flash signal. This produces an attention-grabbing 360° warning effect and is particularly suited to use at high speeds. The intense flashing signal is also noticed outside the direct line of sight, i.e. in the peripheral field of vision, so guaranteeing an early warning of danger. The beacon is available as a fixed version to start with. A pipe socket and magnetic version will also be available in the near future.

 Rotating warning signal

 Flashing warning signal

### Technical data

	Rotating	Flashing
Nominal voltage ( $U_N$ )	Multi-voltage	
Operating voltage ( $U_b$ )	12 V / 24 V	
Total current consumption	1.08 A (12 V) 0.54 A (24 V)	3.16 A (12 V) 1.58 A (24 V)
Power consumption	max. 13 W	max. 38 W
Light ring	Polycarbonate	
Housing	Aluminium	
Position of use	Upright	
Connection	Cable length: 150 mm	
Lighting function	Flashing or rotating	
Light source	LED	
Weight	690 g incl. rubber base	
Temperature range	-40°C to +60°C	
Reverse polarity protection	Yes	
GGVSE / ADR	Yes	
Protection class	IP 6K7, IP 6K9K	
EMC protection	ECE-R10: 058840	
	CISPR 25 Class 3	CISPR 25 Class 5
Lighting technology homologation	005047	ECE-R65 TA1 (E1) 005046



## HIGH-GRADE MATERIALS

The use of aluminium and polycarbonate protects the K-LED Reblution against being struck by branches and external environmental influences. Careful workmanship and full bonding of materials ensures that the beacon is likewise protected from dust and water. Satisfying IP protection classes IP 6K7 and IP 6K9K, it can also easily withstand washing with high-pressure cleaners.

The high-quality LEDs and sophisticated electronics result in excellent electromagnetic compatibility and prevent interference from other signals. A further benefit: The beacon is maintenance-free. It is suitable for continuous operation thanks to low overall power consumption and long-lasting, high-quality LEDs. The beacon is also easy on the vehicle's battery.

## INNOVATIVE EDGE LIGHT TECHNOLOGY

The relevance of LED not only increases in terms of its energy saving potential – the light source can also make it significantly easier to identify a vehicle. To this end, what is known as EdgeLight technology was used during development of the K-LED Reblution. This technology originates from rear lamp manufacturing and has been applied to the sector of optical warning systems.

The EdgeLight light guide makes a clear statement with its light-emitting edge. Here light from an LED is injected at the rear edge of the EdgeLight, with this light running through the light guide plate via total reflection until it is emitted at the front edge. This makes it possible to generate a far-reaching warning signal with a minimalist, circumferential light exit area of just 8 mm in height. The warning effect of the K-LED Reblution satisfies the statutory requirements of the European ECE-R65 directive for beacons, also ensuring it is suitable for use on public roads.



With EdgeLight technology



## FIND OUT MORE

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Hear from our product manager for beacons in person what our priorities were when developing the new K-LED Rebelution and what makes the product so special. See both warning signals in action and experience the benefits of this new design beacon.

The video as well as technical details and further information about the product can be found online at [www.hella.com/lightstyle](http://www.hella.com/lightstyle)







## PERFECT INTEGRATION IN VEHICLE DESIGN – THE BEAUTY FOR YOUR BEAST

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For more light in daily usage. Opposites attract, be it man or machine!  
The K-LED Rebelution embodies the beauty of design and the power of performance. It is the perfect package for the "workhorses" plying our roads.

HELLA is taking advantage of the many options available when LEDs are combined with optical systems to enhance specific vehicle design with attractive styling. The standard black housing and discreet design lets the beacon blend in with the overall look of a vehicle to optimum effect.



### CUSTOMISATION: LOGO AND COLOUR

It is possible to feature a specific logo on the beacon or change the colour of the housing for vehicle manufacturers.

The picture shows an example of a white housing although the beacon is not available in white as standard. Customisation is only possible on request.

## TRUCKS AND TRAILERS

Vehicles intended for use in road traffic must be equipped with an appropriate warning signal. If a beacon is in continuous operation, for example on a heavy goods vehicle, it is the rotating version that is more suitable. Other road users are then given sufficient warning in good time without being dazzled. The rotating signal is easier on the human eye over an extended period.

Trucks and trailers are frequently also used for advertising purposes, acting as a moving billboard for the company. The K-LED Rebelution offers a huge advantage in this regard, firstly thanks to its discreet, modern design and secondly, due to the superior workmanship. The vehicle and the area of advertising can be easily washed with a high-pressure cleaner without damaging the beacon.



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## AGRICULTURAL AND FORESTRY MACHINES

With agricultural and forestry machines the beacon is mainly used when crossing over and driving on public roads. The K-LED Rebelution holds the ECE-R65 and ECE-R10 approval required for this purpose.

In the field however it faces tougher conditions: Both vehicle and beacon are subjected to severe vibration and dirt. But the K-LED Rebelution can also easily cope with such challenges thanks to the robust materials used in the manufacture.

In addition, the beacon will particularly impress in this segment with its options for customisation. A logo can be included and the housing colour can be changed if wished, so ensuring a perfect match with the existing vehicle design of tractors and combine harvesters.



## CONSTRUCTION MACHINERY

Conditions are tough on building sites: Dust, vibrations and flying stones are all part of a day's work. Such vehicles, some without shock absorbers, find themselves in continuous service and need to be made of robust components.

The K-LED Rebelution is perfectly equipped to deal with vibrations and external environmental influences thanks to its powder-coated aluminium housing and the light exit area made from polycarbonate. Built with precise workmanship, the housing is protected from the ingress of dust and water.

Fitted to the operating area of the construction machine, the K-LED Rebelution's warning signal significantly improves safety all round the vehicle. If necessary, construction vehicles are also authorised for use in road traffic as the beacon holds the ECE-R65 and ECE-R10 approval required when driving on public highways.



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## MUNICIPAL VEHICLES

Municipal vehicles are used in continuous service, where they are exposed to the weather, salt and dusty environments – but all this is no problem for the K-LED Rebelution due to the high-quality, temperature-resistant materials from which it is made!

Another important factor is safety. People in the operating area of the vehicle are informed about the hazardous situation well in advance with the K-LED Rebelution's far-reaching warning signal. The safety of all road users is also significantly improved in unexpected situations and at high speeds, for example with roadworks on motorways.

A further benefit: The beacon satisfies protection class IP 6K9K. This means that stubborn dirt can be safely removed from the vehicle using a high-pressure cleaner.



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