

## Description

### Radar-LED (Outdoor)

#### Technical description

The ***hansen*** Radar-LED with converters and accessories is a highly flexible system for backlighting acrylic glass, banner fabric or similar translucent materials.

Its primary application is the illumination of large and flat illuminated bodies with a depth of 60 to 150 mm.

The key feature of the ***hansen*** Radar-LED is a special lens with a large radiation angle of approximately 160°. The lens spreads the light at a „flat“ angle leading to a more uniform light distribution on the backlit surface. This means that less LEDs are needed per unit surface area, and the installation effort is reduced due to the lower number of LEDs.

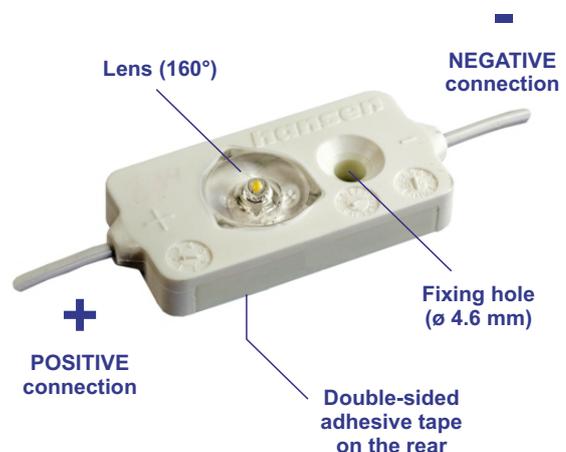
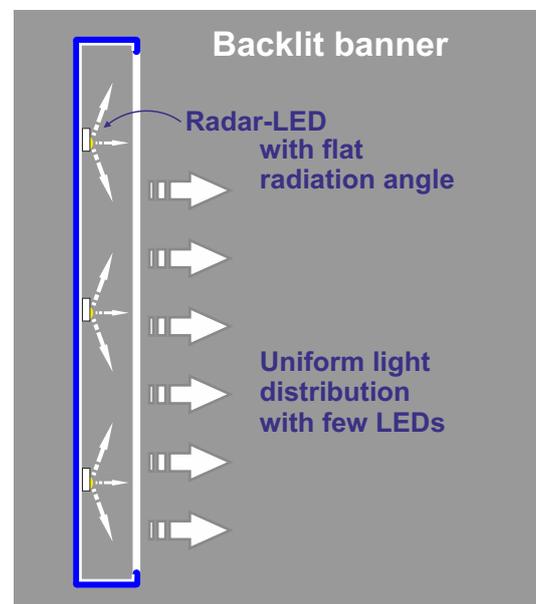
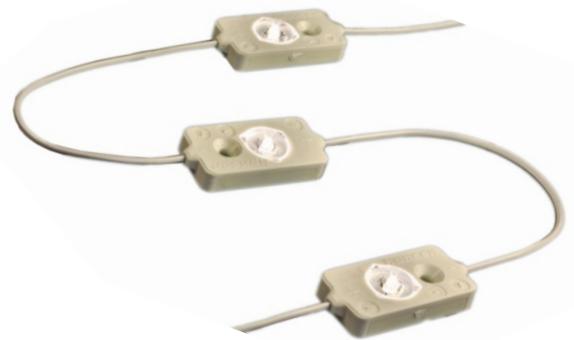
The ***hansen*** Radar-LEDs are operated in series connection with a constant LED current of 100 mA. This has the following benefits:

- Uniform brightness of the LEDs
- High system safety (terminals, cables)
- Overloading of the supply cable is not possible
- 22.5% less energy consumption than with 12 VDC
- Low operating current of the LEDs (well below the limit value) ensures a long lifetime

The ***hansen*** Radar-LED is available with white light and the following colour temperatures: 3,000 K, 4,000 K, 5,000 K and 6,500 K.

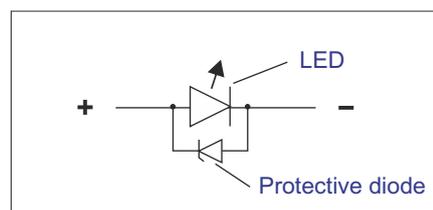
The LED spacing, i.e. the length of the connecting cables between the individual LEDs is pre-determined by the manufacturer. The Radar-LED can be ordered with a spacing of 100, 150, 200 and 250 mm.

The installation of the ***hansen*** Radar-LEDs inside the light box is easiest when the LEDs are mounted at the pre-determined spacing. In doing so, however, it must be taken into account that the desired uniformity and brightness of the illumination is achieved. If necessary, the LEDs can always be installed at a smaller spacing.



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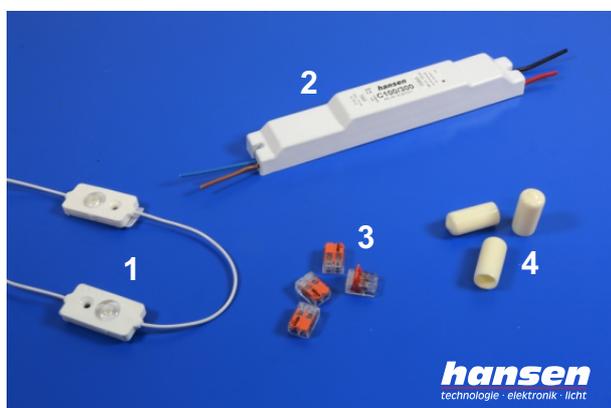
An anti-parallel protective diode protects the circuit against interruption. Although the probability of a fault in the LED is very low, the protective diode will bridge the current should an LED fail. In this case, the faulty LEDs will remain inoperative while all the other LEDs in the circuit will continue to shine with the same brightness.



The housing of the Radar-LED consists of white plastic (polyamide/ABS). Thanks to this solid enclosure the Radar-LED has a degree of protection of IP65.



### Radar-LED and accessories



#### 1 Radar-LEDs

#### **Accessories** (picture shows example):

Not included in the scope of delivery; depends on the order; quantity and scope stated in the delivery note

- 2 LED converter (optional)
- 3 WAGO connectors (optional)
- 4 Insulating caps (optional)