

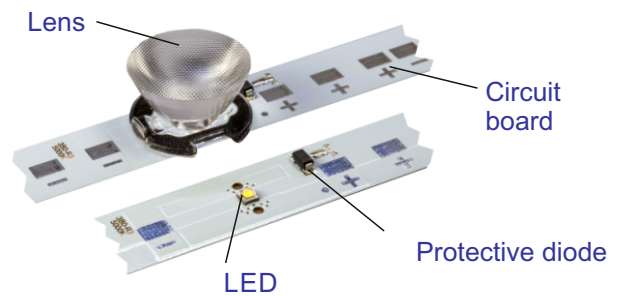
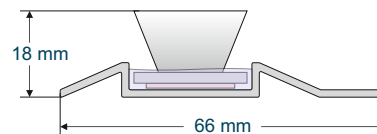
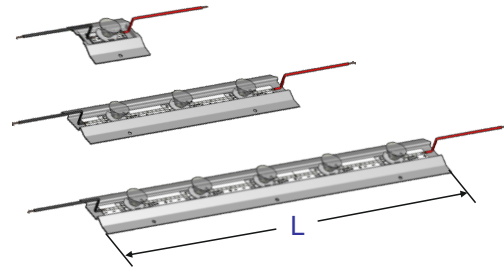
Frame-mount LED Spots

The **hansen** Frame-mount LED Spots are a special light source designed for the illumination of light boxes. These light boxes are commonly used in illuminated advertising, for back-lighting posters, printed banner fabric or acrylic glass panes with logos and writings.

The base consists of an aluminium sheet or profile containing the LEDs, circuit boards and soldering points embedded in artificial resin. In addition, the aluminium profile or sheet helps to achieve a better cooling of the LEDs.

The **Frame-mount LED Spots** are usually equipped with a lens featuring an oval radiation characteristic with an angle of $10^\circ \times 42^\circ$.

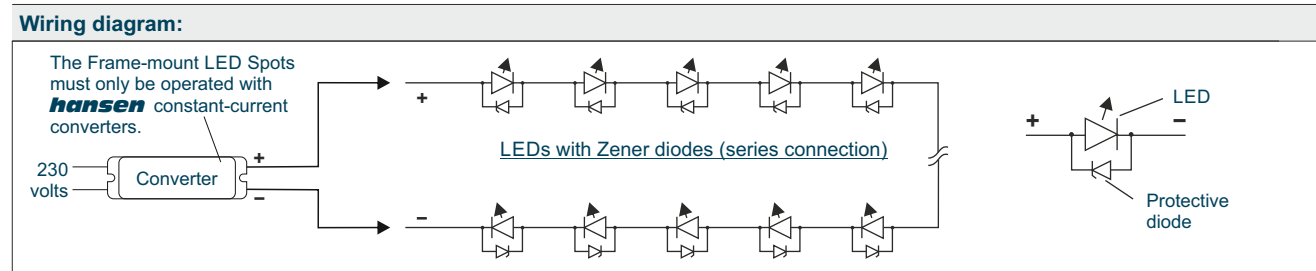
The LEDs are operated in series connection by a constant current power supply.



| General data: | |
|---------------------------|--|
| Type of connection | Series connection |
| Power supply unit | hansen converter type C700/... |
| Max. LED current | 700 mA |
| LED power (750 mA) | 2.25 W |
| LED spacing | 100 mm (50, 75, 150 mm optional) |
| Available lenses | $10^\circ \times 42^\circ$ (10° , 30° optional) |
| Degree of protection | IP 65 |
| Class of protection | II |
| Ambient temperature range | -25°C to $+65^\circ\text{C}$ |
| Residual luminous flux | 80% after 50,000 operating hours |
| Conformity | CE, RoHS |
| LED light colour | 6,500 K (3,000 K/4,000K/5,000K optional) |
| Standards lengths "L" | 80 mm, 280 mm, 480 mm, 980 mm |
| Maximum length "L" | 2,980 mm (special lengths up to 3,980 mm) |

| Luminous flux and power consumption: | | | |
|--------------------------------------|-------------|----------------------------|-------------------|
| Type/length | No. of LEDs | Luminous flux (at 6,500 K) | Power consumption |
| 80 mm | 1 | 270 lm | 2.25 W |
| 280 mm | 5 | 810 lm | 6.75 W |
| 480 mm | 5 | 1,350 lm | 11.25 W |
| 980 mm | 10 | 2,700 lm | 22.5 W |
| 1,980 mm | 20 | 5,400 lm | 45.0 W |
| 2,980 mm | 30 | 8,100 lm | 67.5 W |

| Material properties – transparent potting compound: | |
|--|--|
| Two-component potting compound, polyurethane (PUR)-based | |
| Shore A hardness | 70 +/-5 |
| Shore D hardness | < 30 |
| Service temperature | -40°C to $+90^\circ\text{C}$ |
| Dielectric strength | 70 kV/mm (VDE 0303 Part 2) |
| UV resistance | Resistant |
| Thermal expansion | 0.12 mm/m 1/K to 0.21 mm/m 1/K |
| Reaction to fire | Building material class B2, Class 3, TP(b) |



All values refer to an ambient temperature of $+25^\circ\text{C}$



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