

LED Pipe (Series Connection) – Data Sheet

hansen

The **hansen LED Pipe** is an acrylic pipe with a circular cross-section illuminated by LEDs fitted inside the pipe. The pipe is straight and cannot be bent.

The **LED Pipe** can be used to create decorative illuminated lines inside and outside buildings, on stairs, roofs or corridors. The white **LED Pipe** can also be used as an additional lighting element (replacing fluorescent lamps).

The **LED Pipe** is available in six different colours and can be fitted with LEDs in six colours.

With a fixed outside diameter of 38 mm, the **LED Pipe** can be made to any customer-specified length between 300 mm and 3,000 mm.

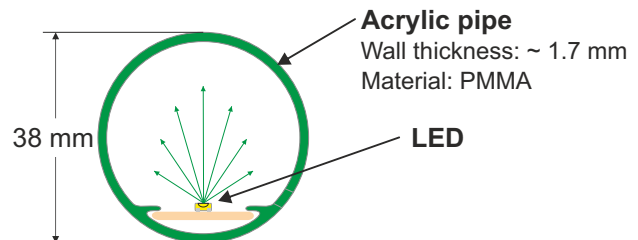


General data:

Type of connection	Series connection
Power supply unit	hansen converter type C50/...
LED current	50 mA
Power consumption	7.5 W/m (white, blue, green) 4.5 W/m (red, yellow, amber)
LED spacing	22 mm
Degree of protection	IP65
Class of protection	II
Ambient temperature range	-25 °C to +65 °C
Residual luminous flux	70% after 50,000 operating hours
Pipe outside diameter	38 mm
Minimum length	300 mm
Maximum length	3,000 mm
Conformity	CE, RoHS

Material properties – PMMA (acrylic):

Manufacturing process	Extrusion
Linear expansion	0.07 mm/(m K) (DIN 53752-A)
Dielectric strength	30 kV/mm (VDE 0303 Part 2)
Softening temperature	115 °C (ISO 306, method B 50)
Reaction to fire	Building material class B2 (DIN 4102)
Flammability	HB (UL 94)



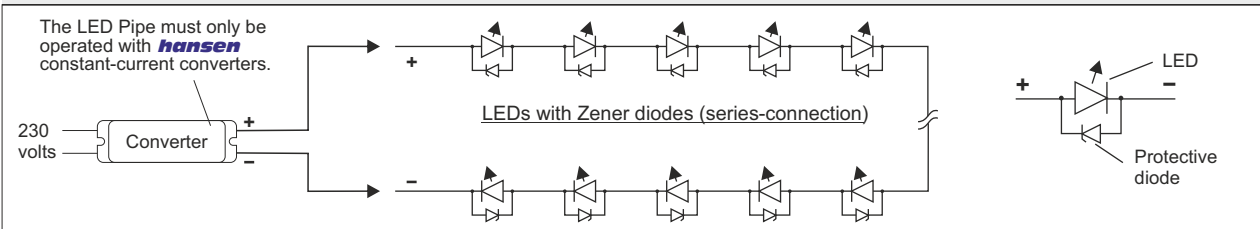
Photometric data:

Light colour	Luminous flux	Luminance ¹⁾
White 3,000 K	676 lm/m	2,970 cd/m ²
White 4,000 K	740 lm/m	3,310 cd/m ²
White 5,000 K	762 lm/m	3,360 cd/m ²
White 6,500 K	751 lm/m	3,460 cd/m ²
Blue (463–471 nm)	10 lm/m	50 cd/m ²
Green (516–534 nm)	17 lm/m	100 cd/m ²
Red (612–624 nm)	139 lm/m	680 cd/m ²
Yellow (583–592 nm)	190 lm/m	810 cd/m ²
Amber (600–609 nm)	200 lm/m	870 cd/m ²

Note: Tolerance of the photometric data: +/- 10%

¹⁾ Referring to the area with the highest luminance

Wiring diagram:



All values refer to an ambient temperature of +25 °C.

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