

Duo-Chain

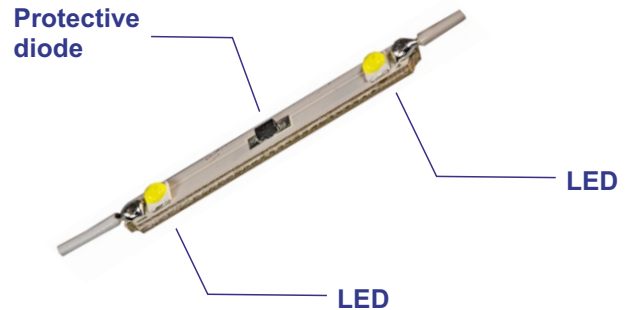
Die **hansen Duo-Chain** is a very flexible light source primarily designed for the illumination of solid acrylic letters for illuminated advertising purposes.

The **Duo-Chain** is designed to be embedded in a groove milled into the acrylic letters. The groove is usually filled with a transparent artificial resin by the customer. Please note that the compatibility of the LEDs with the filling compound must be tested in advance.

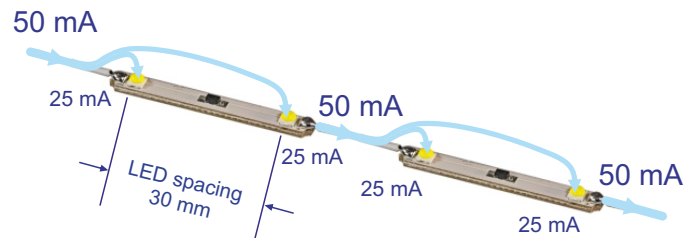
The **Duo-Chain** consists of multiple LED modules connected in series. Each module is equipped with two LEDs connected in parallel, i.e. the operating current is split between these two LEDs. Each module is provided with an anti-parallel protective diode. The chain requires special constant-current converters for operation.

The number of LEDs, overall length, brightness and light colour of the chain can be specified by the customer.

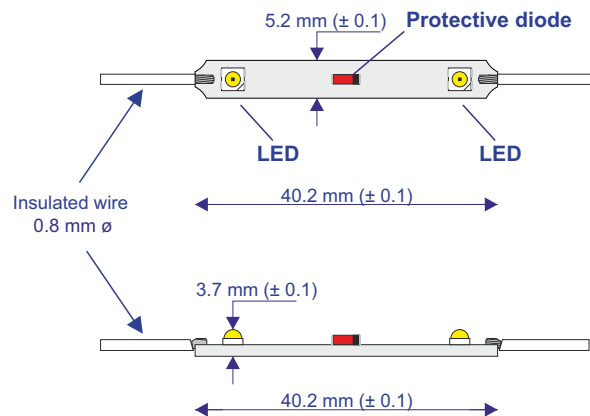
Components overview



LED spacing and individual currents

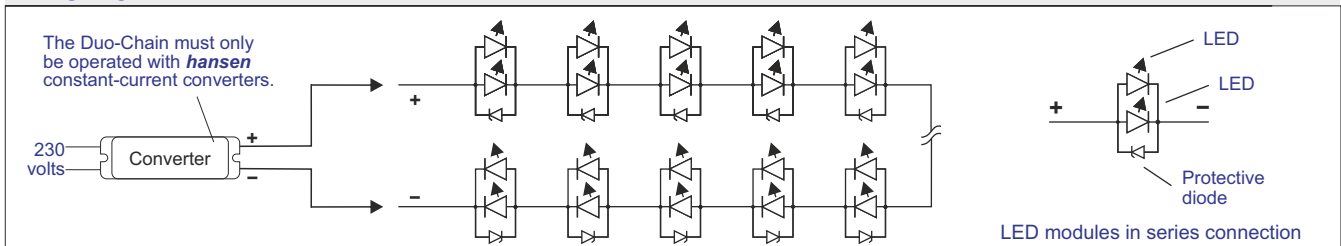


Dimensions



General data:	
Type of connection	Series connection
Power supply unit	hansen converter, type C.../...
LED current (max.)	50 mA (white)
Wattage (per module)	0.16 W (white)
LED radiation angle	120°
LED spacing	30 mm
Degree of protection	IP00 (a higher degree (IP65) can be achieved with a suitable filling compound)
Protection class	II (to be ensured by installation)
Ambient temperature range	-25 °C to +65 °C
Residual luminous flux	70% after 50,000 operating hours
Certification	CE, RoHS
Circuit board dimensions	40.2 x 5.2 x 3.7 mm (L x W x H)
Circuit board material	FR 4 epoxy resin, 1.5 mm
Connecting wire	0.8 mm YV equipment wire
Photometric data (one module):	
White 2,700 K	17.4 lm
White 3,000 K	17.4 lm
White 4,000 K	19.2 lm
White 5,000 K	19.2 lm
White 6,500 K	19.2 lm
Note: Tolerance of the photometric data: +/- 10%	

Wiring diagram:



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



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