

LED Tube

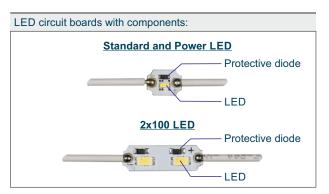
The **hansen LED Tube** is a highly flexible light source designed for backlighting acrylic, banner or similar translucent materials. Its primary application is the illumination of channel letters and light boxes in illuminated advertising systems.

The **LED Tube** consists of a chain of series-connected LEDs. Each LED is provided with an anti-parallel protective diode mounted on the same printed circuit board. For better protection, the circuit boards and the connecting cables are enclosed in a continuous transparent heat shrink tubing.

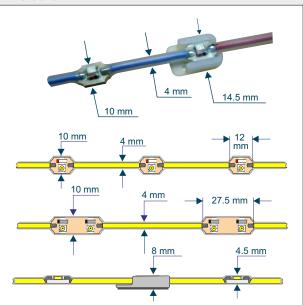
LED spacing, overall length, brightness and light colour of the LED Tube can be specified by the customer.

Classification of LED-type, light colour and current:				
	Standard	Power	2x100	
25 mA	• • • 0.08 W			
50 mA	● ● ● 0.11 W			
100 mA		 • • • 0.28 W • • • 0.2 W 	0.56 W	
Photometric data of the LEDs:				
Light colour S		Standard	Power*)	
White 2,700 K		8,7 lm	42 lm	
White 3,000 K		8,7 lm	42 lm	
White 4,000 K		9,6 lm	44 lm	
White 5,000 K		9,6 lm	44 lm	
White 6,500 K		9,6 lm	44 lm	
White 7,600 K		9,6 lm	44 lm	
Blue (463 - 471 nm)		2,4 lm	6,3 lm	
Green (516 - 534 nm)		9,2 lm	21,5 lm	
Red (612 - 624 nm)		9,5 lm (at 50 mA)	14 lm	
Yellow (583 - 592 nm)		6,3 lm (at50 mA)	XXX	
Amber (600 - 609 nm)		9,5 Im (at 50 mA)	XXX	
LED radiation angel		120°	XXX	
Colour rendering, white		CRI 80 (CRI 70	bei 7600K)	
Note: Tole	rance of the photome	etric data: +/- 10%		
	the Power-2x100 LED = 50 mA operating current	values of Power LED x 2 t: Values of power : 1,9	2	
Heat sh	rink tubing:			
Base material		Cross-linked polyolefin		
Colour/surface		Transparent/smooth, matt		
Operating temperature		-55 °C to +135 °C		
Dielectric strength		24 kV/mm (VDE 0303 Part 2)		
Flammal	oility	FMVSS 302 passed		
			-	

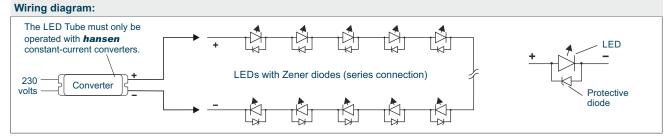
Halogen-freeAccording to DIN VDE 0472-815ApprovalsVg95343, Ul224, CSA



Dimensions:



General data:		
Type of connection	Series connection	
Power supply unit	hansen converter type C /	
Degree of protection	IP3X	
Class of protection	II	
Ambient temperature range	-25 °C to +65 °C	
Residual luminous flux	70% after 50,000 operating hours	
UV resistance	Must be protected against direct UV radiation	
Conformity	CE, RoHS	
Test certificate	TÜV type test	



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



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