

POWERLED® LC STRIP is a module in the shape of strip 375x10x4 mm in dimensions, containing twelve highly efficient diodes LED. There is a possibility of dividing a module into three equal pieces of 125mm each (there are two mounting holes in each part $\phi=3,5$ mm). It is used in outline and linear lighting (e.g. "contour" of petrol stations). It can also be used for artistic and decorative lighting.

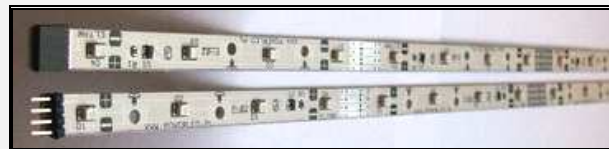
LC STRIP version LZ is fitted out with four-pin connectors soldered at the ends which enables joining strips in long lines. In this way, up to 5-10 meters of LZ STRIPS can be joined together and supplied from one terminal.

POWERLED® LC (L3 & LZ) STRIP

L3



LZ



TECHNICAL PARAMETERS		OPTICAL PARAMETERS ¹			
		¹ based on diode LED producer catalogue data			
Physical dimensions length/width/height	375 mm x 10 mm x 4 mm (three parts 125 mm each)	Available colours	Symbol	Flux of light and angle of light	
		white cold (above.6000K)	LC-WH-.-18-IS	typ. 75 lm	2 $\theta_{1/2}$ =120° (for a single diode LED)
		white neutral (ca.5000K)	LC-WH-.-18-CR	typ. 110 lm	
white warm (ca.3000K)	LC-WW-.-18-PŽ	typ. 75 lm			
Module weight	ca. 14 g	blue	LC-BL-.-18-IS	typ. 24 lm	
		green	LC-GR-.-18-MS	typ. 60 lm	
LED diodes quantity	12 pcs. (raster: 31 mm)	yellow	LC-YL-.-10-OS	typ. 36 lm	
		yellow	LC-YL-.-10-OH	typ. 60 lm	
Way of fixing	silicon glue, sticky tape, mounting screw (hole diameter 3,5 mm)	orange	LC-OR-.-10-OS	typ. 36 lm	
		orange	LC-OR-.-10-OH	typ. 105 lm	
		amber	LC-AM-.-10-OH	typ. 60 lm	
		red	LC-RD-.-10-OH	typ. 50 lm	

ELECTRICAL PARAMETERS							
Module type	Current input I _Z [mA] +/- 5%	Supply voltage U _Z [V]	Power input P [W]	Electrical efficiency factor ² : η [%]	Current change I _Z vs. voltage change U _Z factor ³ : I _U [%/%]	Current change I _Z vs. temperature change T factor ⁴ : I _T [%/K]	PWM modulation possibility
LC-WH-.-18-IS	ca. 70 mA	18 VDC -10% +5%	ca. 1,4W	min. 70 %	max. 1	typ. -0,3 $\frac{\%}{K}$	yes f _{clock} ≤ 4 kHz
LC-WH-.-18-CR	ca. 90 mA		ca. 1,7W				
LC-WW-.-18-PŽ	ca. 70 mA		ca. 1,4W				
LC-BL-.-18-IS	ca. 70 mA		ca. 1,4W				
LC-GR-.-18-MS	ca. 75 mA		ca. 1,5W				
LC-YL-.-10-OS	ca. 130 mA	12 VDC -15% +5%	ca. 1,5W	min. 70 %			
LC-YL-.-10-OH	ca. 130 mA		ca. 1,5W				
LC-OR-.-10-OS	ca. 130 mA		ca. 1,5W				
LC-OR-.-10-OH	ca. 130 mA		ca. 1,5W				
LC-AM-.-10-OH	ca. 130 mA		ca. 1,5W				
LC-RD-.-10-OH	ca. 130 mA		ca. 1,5W				

Explanatory note:

² The electrical efficiency factor (η) is assigned as, expressed in percentage, the proportion of power provided for diodes LED to total power consumed by a module (the higher rate of this factor the better, max. value is 100%).

³ Current change I_Z vs. voltage change U_Z factor (I_U) represents the relation of module LED current relative change as a result of supply voltage relative value change (the lower value the better, in good solutions the value of this factor does not exceed 1).

⁴ Current change I_Z vs. temperature change T factor (I_T) represents module LED current relative change (given in percentage) at the increase of temperature of 1 degree (the value of this factor should be very low, negative value proves the use of the current negative thermal compensation extending diodes LED life time).

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