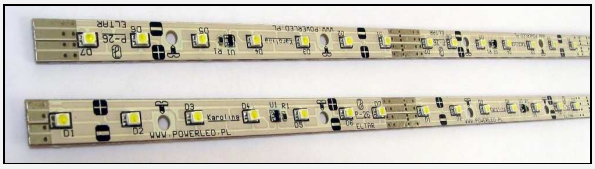
POWERLED® STRIP Lmax is a module in the shape of strip 390 x 10 x 4 mm in dimensions, containing twenty-one bright diodes LED. There is a possibility of dividing a module into three equal pieces of 130 mm each (there are two mounting holes in each part ϕ=3,5 mm). It is used in outline and linear lighting (in special lampholders it replaces neon displays). It can also be used for artistic and decorative lighting.

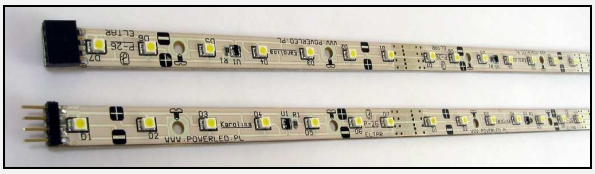
STRIP version Lmax-z is fitted out with four-pin or two-pin connectors soldered at the ends which enables joining strips in long lines. In this way, up to 5-10 meters of Lmax-z... STRIPS can be joined together and supplied from one terminal.

POWERLED® Lmax i Lmax-z MODULE

Lmax



Lmax-z



TECHNICAL PARAMETERS	
Physical dimensions length/width/height	390mm x 10mm x 4mm (three parts 130 mm each)
Module weight	ca. 16 g
LED diodes quantity	21 pcs. (raster: 18,5 mm)
Way of fixing	silicon glue, sticky tape, mounting screw (hole diameter 3,5 mm)

OPTICAL PARAMETERS [1]

[1] based on diode LED producer catalogue data

Available colours		Symbol	Flux of light and angle of light	
white cold (ok. 5400K)		Lmax..-WH-26-PS	typ. 100 lm	$2\theta_{½}=120^{O}$ (for a single diode LED)
white warm (ok. 3200K)		Lmax..-WW-26-PŻ	typ. 100 lm	
blue		Lmax..-BL-26-SS	min. 30 lm	
green		Lmax..-GR-26-MS	typ. 100 lm	
yellow		Lmax..-YL-18-OS	typ. 60 lm	
yellow	NEW !	Lmax..-YL-18-OH	typ. 100 lm	
orange		Lmax..-OR-18-OS	typ. 60 lm	
orange	NEW !	Lmax..-OR-18-OH	typ. 180 lm	
amber	NEW !	Lmax..-AM-18-OH	typ. 100 lm	
red		Lmax..-RD-18-SS	min. 30 lm	

ELECTRICAL PARAMETERS

Module type	Current input I_Z [mA]	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
Lmax..-WH-26-PS	ca. 70 mA	**26 VDC** -5% +5%	ca. 1,9W	min. 80 %	max. 1	typ. -0,3 $\frac{\%}{K}$	yes $f_{clock} \leq 4kHz$
Lmax..-WW-26-PŻ	ca. 70 mA		ca. 1,9W				
Lmax..-BL-26-SS	ca. 70 mA		ca. 1,9W				
Lmax..-GR-26-MS	ca. 70 mA		ca. 1,9W				
Lmax..-YL-18-OS	ca. 150 mA	**18 VDC** -5% +10%	ca. 2,7W				
Lmax..-YL-18-OH	ca. 150 mA		ca. 2,7W				
Lmax..-OR-18-OS	ca. 150 mA		ca. 2,7W				
Lmax..-OR-18-OH	ca. 150 mA		ca. 2,7W				
Lmax..-AM-18-OH	ca. 150 mA		ca. 2,7W				
Lmax..-RD-18-SS	ca. 80 mA		ca. 1,5W				

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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 Iz 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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