

High efficiency LEDs for sharp edges, superior homogeneity

**5 PIN M12 Connector** with PNP/NPN/analogue dimming input

LTPRUP series features high-power LED pattern projectors de-

signed for inline or offline applications including quality control, 3D reconstruction, dimensional measurement, planarity control,

Built-in driver for continuous and strobe operations

Compatible with standard C-mount lenses up to 1.1"

Automatic shutdown in case of overheating

robot guidance and alignment applications.

Interchangeable projection patterns

# LT2PRXP-R | DATASHEET

# High power LED pattern projector, red, 625 nm





# **SPECIFICATIONS**

#### **Lighting specifications**

Mechanical	specifications

**Compact version** available

**KEY ADVANTAGES** 

and contrast

Active area diameter	ctive area diameter (mm) 17.6		Mount		С	
Light color, peak wavelengt	h	red, 625 nm	Phase adj availability		Yes	
Spectral FWHM	(nm)	20	Length	(mm)	100.7	
Illuminance, continuos <sup>1</sup>	(klux)	498	Width	(mm)	59.1	
Irradiance, continuos <sup>1</sup>	(W/m <sup>2</sup> )	3100	Height	(mm)	59.1	
Illuminance, strobe <sup>1</sup>	(klux)	1300	Mass	(g)	332	
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	6370	_			

Electrical	specifications

Electrical specifications			
Operating mode		Continuous and strobe	
Power supply mode			
Supply voltage <sup>2</sup>	(V)	24 -	
Current <sup>2</sup>	(A)	1.05	
Power consumption <sup>2</sup>	(W)	25.2	
Peak power consumption <sup>3</sup>	(W)	45.6	
Max led forward current <sup>3</sup>	(A)	3	
Min pulse duration	(µs)	2	
Max pulse duration	(ms)	10	
Max duty cycle	(%)	10	
Typical pulse delay	(%)	400	
Typical jitter	(%)	100	
I/O interface	PNP lo	gic input, NPN logic input,	
	analog dimming input		
Connector	1x M12 straight plug male connector		
Included cable		not included	

Env	ironn	nent

	Operating temperature	(°C)	0-40
	Storage temperature	(°C)	0-50
_	Operating relative humidity	(%)	20-85, non condensing
_	Installation		Indoor use only
_	IP rating		IP30

#### Eye safety

Risk group (CEI EN 62471:2010)

Risk group 1

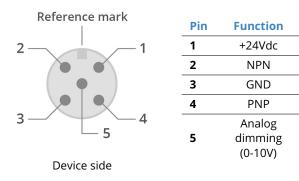
<sup>1</sup> At pattern emitting surface.

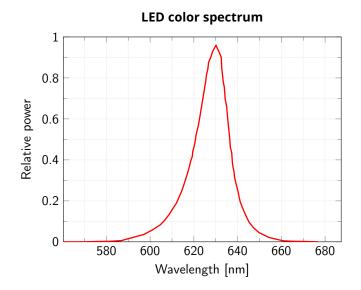
<sup>2</sup> Continuous mode, using the integrated electronic driver.
<sup>3</sup> Strobe mode.

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## **CONNECTOR PINOUT**





### **RECOMMENDED ACCESSORIES**

Opto-Engineering<sup>®</sup> suggests the following accessories to power the camera:

- **CBLTM12-5P-2M**, Illumination cable PVC black, Side 1 M12 female connector 5 poles, Side 2 cable end 2 m
- **CBLTM12-5P-5M**, Illumination cable PVC black, Side 1 M12 female connector 5 poles, Side 2 cable end 5 m
- **CBLTM12-5P-10M**, Illumination cable PVC black, Side 1 M12 female connector 5 poles, Side 2 cable end - 10 m

100 80 60 40 20 0 5 10 15 20Vin

Analog input specification

## **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.

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