

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

**Compact version** available

# LT2PRXP-B | DATASHEET

# High power LED pattern projector, blue, 465 nm





# **SPECIFICATIONS**

#### **Lighting specifications**

Mechanical	specifications
Mount	

**KEY ADVANTAGES** 

and contrast

Active area diameter	(mm)	17.6	Mount		С
Light color, peak wavelengt	h	blue, 465 nm	Phase adj availability		Yes
Spectral FWHM	(nm)	30	Length	(mm)	100.7
Illuminance, continuos <sup>1</sup>	(klux)	202	Width	(mm)	59.1
Irradiance, continuos <sup>1</sup>	(W/m²)	9100	Height	(mm)	59.1
Illuminance, strobe <sup>1</sup>	(klux)	224	Mass	(g)	332
Irradiance, strobe <sup>1</sup>	(W/m²)	13100	-		

Electri	ical s	ped	cifica	tions

Operating mode		Continuous and	
Power supply mode			
Supply voltage <sup>2</sup>		24 -	
Current <sup>2</sup>		1.3	
Power consumption <sup>2</sup>		31.2	
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 logic input, NPN logic input,		
	analog dimming input		
Connector	1x M12 straight plug male connector		
Included cable		not included	

	Environment		
	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 3

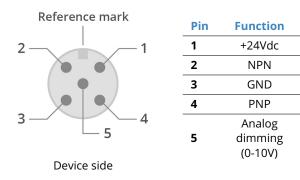
<sup>1</sup> At pattern emitting surface.

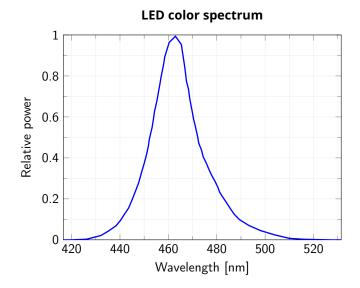
<sup>2</sup> Continuous mode, using the integrated electronic driver. <sup>3</sup> Strobe mode.

All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.

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## **CONNECTOR PINOUT**







 $\mathsf{Opto-Engineering} \ensuremath{\mathbb{R}}$  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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