

High efficiency LEDs for sharp edges, superior homogeneity

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

LTPRUP series features ultra-high power LED pattern projectors

designed for fast image acquisition in high-speed applications, including planarity control of opaque products, robot guidance

Built-in driver for continuous and strobe operations Extreme brightness for high-speed quality control

Compatible with standard C-mount lenses up to 1.1"

Automatic shutdown in case of overheating

Interchangeable projection patterns

for fast pick and place and 3D profiling.

# LT2PRUP-B | DATASHEET

# High power LED pattern projector, blue, 465 nm





# **SPECIFICATIONS**

#### **Lighting specifications**

Mechanical specifications

**KEY ADVANTAGES** 

and contrast

Active area diameter	(mm)	17.6	Mount		C	
	· · ·				<u> </u>	
Light color, peak wavelength		blue, 465 nm	Phase adj availability Ye		Yes	
Spectral FWHM	(nm)	30	Length	(mm)	118.5	
Illuminance, continuos <sup>1</sup>	(klux)	467	Width	(mm)	77.3	
Irradiance, continuos <sup>1</sup>	(W/m²)	18000	Height	(mm)	77.3	
Illuminance, strobe <sup>1</sup>	(klux)	555	Mass	(g)	530	
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	30700	-			
			Environment			

Electrical specifi	cations

Operating mode		Continuous and	
Supply voltage <sup>2</sup>	(V)	24 -	
Current <sup>2</sup>	(A)	2.6	
Power consumption <sup>2</sup>	(W)	62.4	
Peak power consumption <sup>3</sup>	(W)	115.2	
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,		
1/O Interface		analog dimming input	
Connector	1x M12 str	aight plug male connector	
Included cable		not inluded	

	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

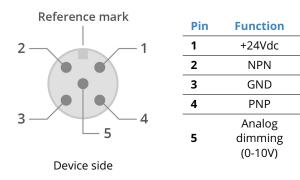
<sup>1</sup> At pattern emitting surface.

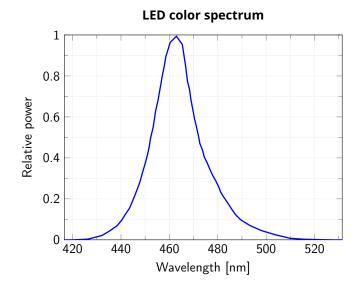
<sup>2</sup> Continuous mode, using the integrated electronic driver.
<sup>3</sup> Strobe mode.

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**







 $\mathsf{Opto}\text{-}\mathsf{Engineering} \\ \$$  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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