

# LT2PRXP-B-C | DATASHEET

## High power LED pattern projector, blue, 465 nm



### KEY ADVANTAGES

High efficiency LEDs for sharp edges, superior homogeneity and contrast

Built-in driver for continuous and strobe operations

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

Compatible with **standard C-mount lenses up to 1.1"**

**Automatic shutdown** in case of overheating

**Interchangeable projection patterns**

**Compact version** available



**LTPRUP series** features high-power LED pattern projectors designed for inline or offline applications including quality control, 3D reconstruction, dimensional measurement, planarity control, robot guidance and alignment applications.

### SPECIFICATIONS

#### Lighting specifications

Active area diameter	(mm)	17.6
Light color, peak wavelength		blue, 465 nm
Spectral FWHM	(nm)	30
Illuminance, continuous <sup>1</sup>	(klux)	-
Irradiance, continuous <sup>1</sup>	(W/m <sup>2</sup> )	-
Illuminance, strobe <sup>1</sup>	(klux)	224
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	13100

#### Electrical specifications

Operating mode		Strobe
Power supply mode		Constant current driving
Supply voltage <sup>2</sup>		-
Current <sup>2</sup>		-
Power consumption <sup>2</sup>		-
Peak power consumption <sup>3</sup>	(W)	43.8
Max led forward current <sup>3</sup>	(A)	3
Min pulse duration	(ms)	-
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(%)	-
Typical jitter	(%)	-

#### I/O interface

Connector	M12 straight plug male connector
Included cable	20 cm pigtail

#### Mechanical specifications

Mount		C
Phase adj availability		Yes
Length	(mm)	67.5
Width	(mm)	46.0
Height	(mm)	93.0
Mass	(g)	199

#### 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 2
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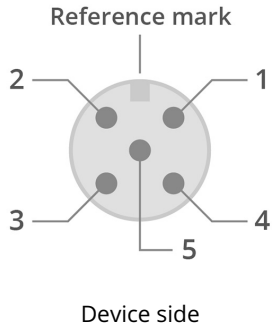
<sup>1</sup> At pattern emitting surface.

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

<sup>3</sup> Strobe mode.

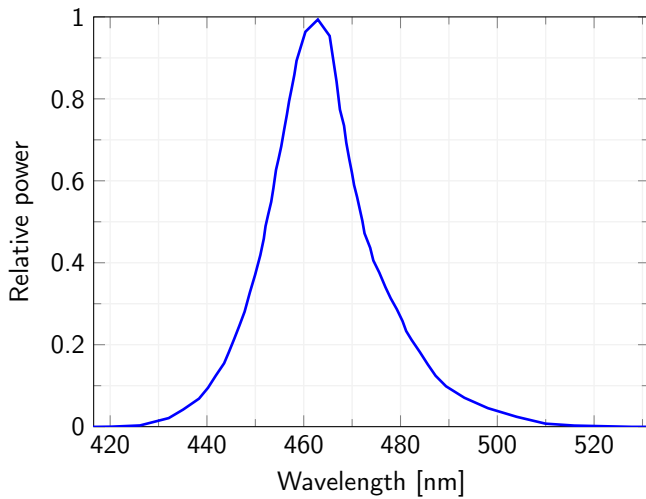
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### CONNECTOR PINOUT

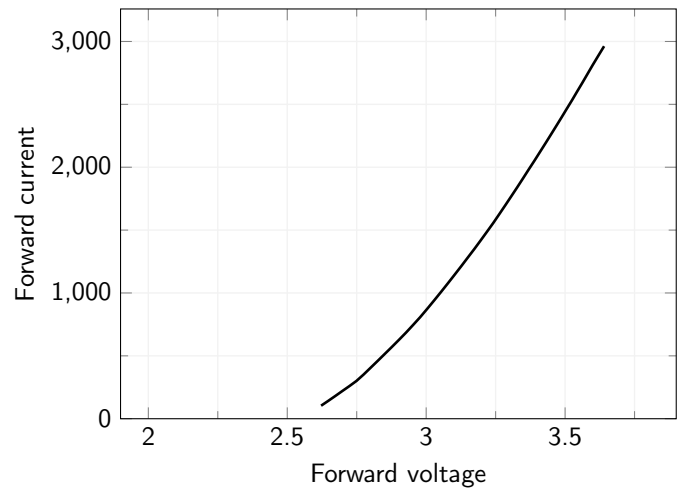


Pin	Function
1	LED anode
2	LED cathode
3	NTC first end
4	NTC second end
5	Not connected

LED color spectrum



Voltage current characteristics



### RECOMMENDED ACCESSORIES

Opto-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

### COMPATIBLE PRODUCTS

Full list of compatible products available [here](#).



A wide selection of innovative machine vision components.

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