

## High Power strobed LED backlight, 96 x 216 mm illumination area, IR



### KEY ADVANTAGES

#### Excellent uniformity

#### Test report with measured uniformity

#### Ultra high-power light output and strobe mode operation

For inspection and measurement of fast moving objects and an extended LED lifetime

#### Suitable for frequent cleaning

Thanks to the optical grade and scratch resistant protective cover

#### Wide selection and modular design

Size options range from 48 x 36 to 288 x 216 mm available in red, white, green, blue and infrared

#### Compact design with reduced thickness (26 mm)

#### Special continuous alignment mode

#### Optional integrated collimation film

The **LTBP series** offers high power LED backlights designed to provide exceptional illumination performances and excellent uniformity.



### SPECIFICATIONS

#### Lighting specifications

Modules		2x6
Illumination area width	(mm)	96
Illumination area height	(mm)	216
Number of LEDs		576
Light color, peak wavelength		IR, 850 nm
Spectral FWHM	(nm)	30
Illuminance <sup>1</sup>	(klux)	-
Irradiance <sup>1</sup>	(W/m <sup>2</sup> )	n.a.
Diffuser		yes
Collimation film		no

#### Electrical specifications

Power supply mode		Strobe only, constant current driving
Peak power consumption	(W)	181.8
Max pulse current <sup>2</sup>	(A)	10.1
Typical pulse voltage	(V)	18.0
Max pulse duration	(ms)	1
Max duty cycle	(%)	1.5
Max continuous current	(mA)	60
Estimated MTBF <sup>3</sup>	(hours)	> 50000
Connector		M8
Included cable		CBLT003

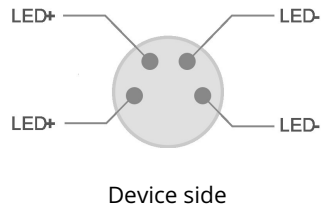
#### Mechanical specifications

Length	(mm)	108.0
Width	(mm)	236.0
Height	(mm)	26.0
Mass	(g)	1463
Clamping system		4x M6 threaded holes
<b>Environment</b>		
Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
IP rating		IP40
Installation		Indoor use only

#### Eye safety

Risk group (CEI EN 62471:2010)	Exempt
<sup>1</sup> Minimum value, at max driving current, on emitting surface. Where n.a. is reported data is available upon request.	
<sup>2</sup> Models where two currents are listed (such as LTBP240180-R) feature two separate channels.	
<sup>3</sup> At 25°C	

### CONNECTOR PINOUT



Function	Cable color
LED +	Brown
LED +	White
LED -	Blue
LED -	Black

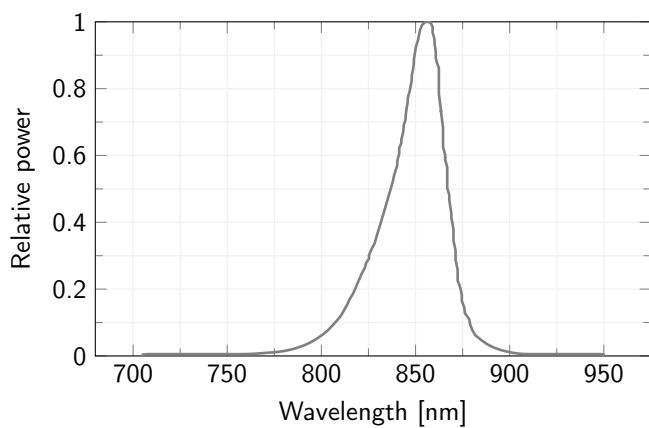
### COMPATIBLE PRODUCTS

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



A wide selection of innovative machine vision components.

### LED color spectrum



### Emission angle

