

## High Power strobed LED backlight, 144 x 36 mm illumination area, IR



### SPECIFICATIONS

#### Lightning specifications

|                              |                     |            |
|------------------------------|---------------------|------------|
| Modules                      |                     | 3x1        |
| Illumination area width      | (mm)                | 144        |
| Illumination area height     | (mm)                | 36         |
| Number of LEDs               |                     | 144        |
| 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)     | 112.3                                 |
| Max pulse current <sup>2</sup> | (A)     | 5.4                                   |
| Typical pulse voltage          | (V)     | 20.8                                  |
| Max pulse duration             | (ms)    | 1                                     |
| Max duty cycle                 | (%)     | 1.5                                   |
| Max continuous current         | (mA)    | 15                                    |
| Estimated MTBF <sup>3</sup>    | (hours) | > 50000                               |
| Connector                      |         | M8                                    |
| Included cable                 |         | CBLT003                               |

### 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.

#### Mechanical specifications

|                             |      |                       |
|-----------------------------|------|-----------------------|
| Length                      | (mm) | 156.0                 |
| Width                       | (mm) | 56.0                  |
| Height                      | (mm) | 26.0                  |
| Mass                        | (g)  | 367                   |
| 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

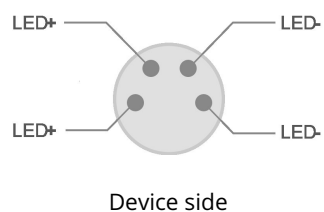
|                                |        |
|--------------------------------|--------|
| Risk group (CEI EN 62471:2010) | Exempt |
|--------------------------------|--------|

<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       |

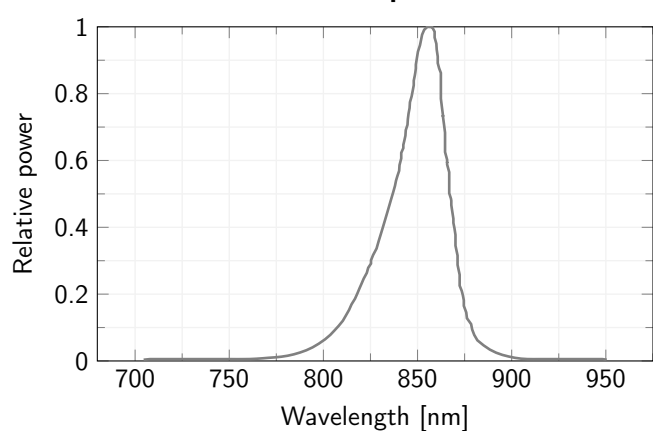
## COMPATIBLE PRODUCTS

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



A wide selection of innovative machine vision components.

## LED color spectrum



## Emission angle

