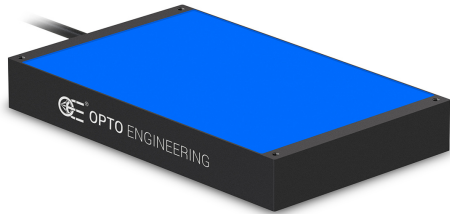




# LT3BC100150-B | DATASHEET

## High-power LED backlights with integrated driver



### KEY ADVANTAGES

**High-power light output**

**Built-in driver** for continuous and strobe operations

**Industry standard 5 PIN M12 Connector**

with PNP/NPN/analog dimming input

**Optional collimating, polarizing and protective filters**

**Compact & robust design** with reduced thickness (24 mm) and thin edges

**Automatic shutdown** in case of overheating

**The LT3BC series** features high-performance LED backlights designed to provide high-power light output, excellent uniformity and contrast thanks to high-efficiency LEDs.

### SPECIFICATIONS

#### Lighting specifications

Illumination area height	(mm)	100
Illumination area width	(mm)	150
Number of LEDs		216
Light color, peak wavelength		blue, 465 nm
Spectral FWHM	(nm)	30
Illuminance, continuous <sup>1</sup>	(klux)	9
Irradiance, continuous <sup>1</sup>	(W/m <sup>2</sup> )	377
Illuminance, boosted <sup>1</sup>	(klux)	18
Irradiance, boosted <sup>1</sup>	(W/m <sup>2</sup> )	747
Illuminance, strobe <sup>1</sup>	(klux)	46
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	2060
Diffuser		yes
Collimation film		optional

#### Mechanical specifications

Height	(mm)	108.0
Width	(mm)	176.0
Thickness	(mm)	24.0
Mass	(g)	450
Clamping system		4x M4 threaded holes

#### Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	0-50
Operating relative humidity	(%)	20-85, non condensing
Installation		Indoor use only
IP rating		IP54

#### Electrical specifications

Operating mode		Continuous and strobe
Supply voltage	(V)	24
Current, continuous	(mA)	840
Power consumption, continuous	(W)	20.16
Current, boosted	(mA)	1680
Power consumption, boosted	(W)	40.32
Peak current, strobe	(mA)	4800
Peak power consumption, strobe	(W)	115
Min pulse duration	(µs)	3
Max pulse duration	(ms)	10
Max duty cycle	(%)	10
Typical pulse delay	(ns)	300
Typical jitter	(ns)	10

I/O interface	PNP logic input, NPN logic input, analog dimming input
Connector	1x M12 straight plug male connector
Included cable	not included

#### Eye safety

Risk group (CEI EN 62471:2010)	Risk group 1
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<sup>1</sup> At emitting surface.

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**CONNECTOR PINOUT**



Pin	Function
1	+24Vdc
2	NPN
3	GND
4	PNP
5	Analogue dimming (0-10V)

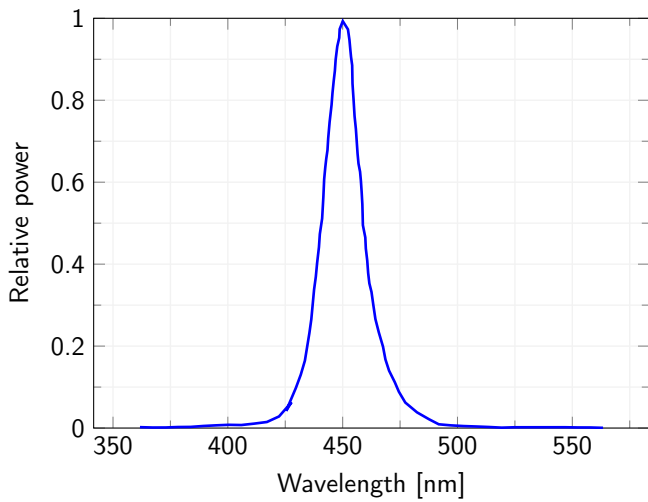
**COMPATIBLE PRODUCTS**

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



A wide selection of innovative machine vision components.

**LED color spectrum**



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