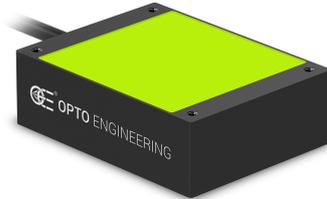




# LT3BC050050-G | DATASHEET

## High-power LED backlights with integrated driver



### SPECIFICATIONS

#### Lighting specifications

Illumination area height	(mm)	50
Illumination area width	(mm)	50
Number of LEDs		36
Light color, peak wavelength	green, 525 nm	
Spectral FWHM	(nm)	35
Illuminance, continuous <sup>1</sup>	(klux)	145
Irradiance, continuous <sup>1</sup>	(W/m <sup>2</sup> )	265
Illuminance, boosted <sup>1</sup>	(klux)	249
Irradiance, boosted <sup>1</sup>	(W/m <sup>2</sup> )	467
Illuminance, strobe <sup>1</sup>	(klux)	533
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	1079
Diffuser		yes
Collimation film		optional

#### Mechanical specifications

Height	(mm)	58.0
Width	(mm)	76.0
Thickness	(mm)	24.0
Mass	(g)	184
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

### 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.

#### Electrical specifications

Operating mode		Continuous and strobe
Supply voltage	(V)	24
Current, continuous	(mA)	140
Power consumption, continuous	(W)	3.36
Current, boosted	(mA)	280
Power consumption, boosted	(W)	6.72
Peak current, strobe	(mA)	800
Peak power consumption, strobe	(W)	19.2
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 dimming input, analog dimming input
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Connector	M12 straight plug male connector
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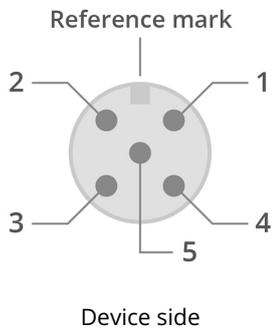
Included cable	1x 20 cm pigtail
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#### Eye safety

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

### 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

