

# LT3BC050050-B | DATASHEET

# High-power LED backlights with integrated driver





## **SPECIFICATIONS**

#### **Lighting specifications**

(mm)	50
(mm)	50
	36
	blue, 465 nm
(nm)	30
(klux)	12
(W/m²)	471
(klux)	22
(W/m²)	920
(klux)	52
(W/m²)	2374
	yes
	optional
	(mm) (nm) (klux) (W/m <sup>2</sup> ) (klux) (W/m <sup>2</sup> ) (klux)

#### **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, continuos	(mA)	140
Power consumption, contin- uos	(W)	3.36
Current, boosted	(mA)	280
Power consumption, boosted	(W)	6.72
Pear 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
		PNP logic input,
I/O interface		NPN dimming input ,
		analog dimming input
Connector		M12 straight plug
		male connector
Included cable		1x 20 cm pigtail
Eve safety		

#### Eye safety

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

All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.

Risk group 1



## **CONNECTOR PINOUT**





# **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.



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