

# LT3BC050050-IR850 | DATASHEET

# High-power LED backlights with integrated driver





#### **SPECIFICATIONS**

#### **Lighting specifications**

(mm)	50
(mm)	50
	36
	IR, 850 nm
(nm)	35
(klux)	0.02
(W/m <sup>2</sup> )	91
(klux)	0.03
(W/m²)	189
(klux)	0.06
(W/m <sup>2</sup> )	284
	yes
	optional
	(mm) (nm) (klux) (W/m <sup>2</sup> ) (klux) (W/m <sup>2</sup> ) (klux)

#### **Mechanical specifications**

(mm)	58.0
(mm)	76.0
(mm)	24.0
(g)	184
	4x M4 threaded holes
(°C)	0-40
(°C)	0-50
(%)	20-85, non condensing
	Indoor use only
	(mm) (mm) (g) (°C) (°C)

#### **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)	100
Power consumption, contin- uos	(W)	2.4
Current, boosted	(mA)	200
Power consumption, boosted	(W)	4.8
Pear current, strobe	(mA)	320
Peak power consumption, strobe	(W)	7.7
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 pigta		1x 20 cm pigtail

#### Eye safety

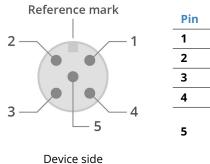
Risk group (CEI EN 62471:2010)
<sup>1</sup> At emitting surface.

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Exempt



### **CONNECTOR PINOUT**



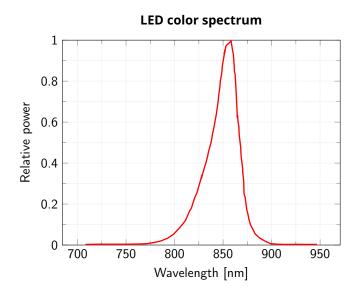


## **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.



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