

LT3BC100150-IR850 | DATASHEET

High-power LED backlights with integrated driver





SPECIFICATIONS

Lighting specifications

(mm)	100
(mm)	150
	216
	IR, 850 nm
(nm)	35
(klux)	0.01
(W/m ²)	73
(klux)	0.03
(W/m ²)	154
(klux)	0.06
(W/m ²)	335
	yes
	optional
	(mm) (nm) (klux) (W/m ²) (klux) (W/m ²) (klux)

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

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)	600
Power consumption, contin- uos	(W)	14.4
Current, boosted	(mA)	1200
Power consumption, boosted	(W)	28.8
Pear current, strobe	(mA)	1920
Peak power consumption, strobe	(W)	46
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
Eye safety		

Eye safety

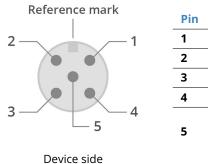
Risk group (CEI EN 62471:2010) ¹ At emitting surface.

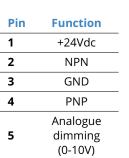
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Risk group 1



CONNECTOR PINOUT



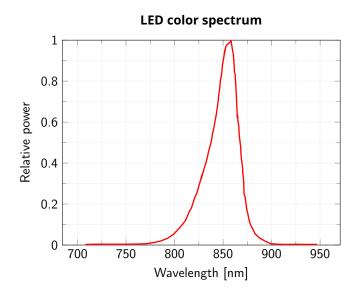


COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.



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