

LT3BC250250-IR850 | DATASHEET

High-power LED backlights with integrated driver











SPECIFICATIONS

Lighting specifications

Illumination area height	(mm)	250
Illumination area width	(mm)	250
Number of LEDs		900
Light color, peak wavelength		IR, 850 nm
Spectral FWHM	(nm)	35
Illuminance, continuos ¹	(klux)	0.01
Irradiance, continuos ¹	(W/m ²)	73
Illuminance, boosted ¹	(klux)	0.03
Irradiance, boosted ¹	(W/m ²)	154
Illuminance, strobe ¹	(klux)	0.06
Irradiance, strobe ¹	(W/m ²)	335
Diffuser		yes
Collimation film		optional

Mechanical specifications

Height	(mm)	248.0
Width	(mm)	276.0
Thickness	(mm)	24.0
Mass	(g)	1308
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

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

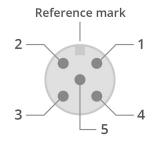
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Operating mode		Continuous and strobe
Supply voltage	(V)	24
Current, continuos	(mA)	2000
Power consumption, continuos	(W)	48
Current, boosted	(mA)	4000
Power consumption, boosted	(W)	96
Pear current, strobe	(mA)	8000
Peak power consumption, strobe	(W)	192
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
Connector		male connector
Included cable		2x 20 cm pigtail
Eye safety		
Risk group (CEI EN 62471:2010)		Risk group 1
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Risk group (CEI EN 62471:2010) Risk group 1

¹ At emitting surface.



CONNECTOR PINOUT



Device side

700

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

800

850

Wavelength [nm]

900

950

750

LED color spectrum

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.