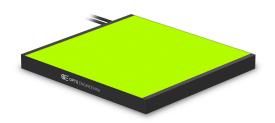


# LT3BC250250-G | DATASHEET

# 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		green, 525 nm
Spectral FWHM	(nm)	35
Illuminance, continuos <sup>1</sup>	(klux)	115
Irradiance, continuos <sup>1</sup>	(W/m <sup>2</sup> )	212
Illuminance, boosted <sup>1</sup>	(klux)	179
Irradiance, boosted <sup>1</sup>	(W/m <sup>2</sup> )	372
Illuminance, strobe <sup>1</sup>	(klux)	469
Irradiance, strobe <sup>1</sup>	(W/m <sup>2</sup> )	924
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 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)	2500	
Power consumption, continuos	(W)	60	
Current, boosted	(mA)	5000	
Power consumption, boosted	(W)	120	
Pear current, strobe	(mA)	15000	
Peak power consumption, strobe	(W)	360	
Min pulse duration	( $\mu$ s)	3	
Max pulse duration	(ms)	10	
Max duty cycle (%) 10		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		2x 20 cm pigtail	

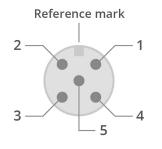
### **Eye safety**

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



### **CONNECTOR PINOUT**



Device side

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

# 1 0.8 0.6 0.6 0.4 0.2 0.2 450 500 550 600 Wavelength [nm]

# **COMPATIBLE PRODUCTS**

Full list of compatible products available here.



A wide selection of innovative machine vision components.