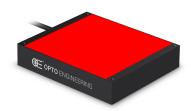


LT3BC100100-R | DATASHEET

High-power LED backlights with integrated driver











SPECIFICATIONS

Lighting specifications

Illumination area height	(mm)	100
Illumination area width	(mm)	100
Number of LEDs		144
Light color, peak wavelength		red, 625 nm
Spectral FWHM	(nm)	20
Illuminance, continuos ¹	(klux)	27
Irradiance, continuos ¹	(W/m ²)	116
Illuminance, boosted ¹	(klux)	54
Irradiance, boosted ¹	(W/m ²)	239
Illuminance, strobe ¹	(klux)	231
Irradiance, strobe ¹	(W/m ²)	980
Diffuser		yes
Collimation film		optional

Mechanical specifications

Height	(mm)	108.0
Width	(mm)	126.0
Thickness	(mm)	24.0
Mass	(g)	350
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

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Operating mode		Continuous and strobe	
Supply voltage	(V)	24	
Current, continuos	(mA)	400	
Power consumption, continuos	(W)	9.6	
Current, boosted	(mA)	800	
Power consumption, boosted	(W)	19.2	
Pear current, strobe	(mA)	3200	
Peak power consumption, strobe	(W)	76.8	
Min pulse duration	(μs)	3	
Max pulse duration	(ms)	ns) 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	ed cable 1x 20 cm pigtail		

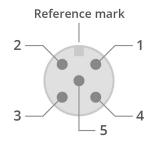
Eye safety

Risk group (CEI EN 62471:2010) Exempt

¹ At emitting surface.



CONNECTOR PINOUT



Device side

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

0.8 0.6 0.2 0.2 0.2 0.8 Variety of the sector of the secto

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.