

LT3BC050050-W | DATASHEET

High-power LED backlights with integrated driver





SPECIFICATIONS

Lighting specifications

Illumination area height	(mm) 50	
Illumination area width	(mm)	50
Number of LEDs		36
Light color, peak wavelength		white, 5700 K
Spectral FWHM	(nm)	-
Illuminance, continuos ¹	(klux)	143
Irradiance, continuos ¹	(W/m²)	401
Illuminance, boosted ¹	(klux)	285
Irradiance, boosted ¹	(W/m²)	807
Illuminance, strobe ¹	(klux)	787
Irradiance, strobe ¹	(W/m²)	2202
Diffuser		yes
Collimation film		optional

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)	140	
Power consumption, contin- uos	(W)	3.36	
Current, boosted	(mA)	280	
Power consumption, boosted	(W)	6.72	
Pear current, strobe	(mA)	800	
Peak power consumption, strobe	(W)	19.2	
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		1x 20 cm pigtail	

Eye safety

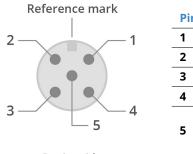
Risk group (CEI EN 62471:2010)
¹ At emitting surface.

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Exempt

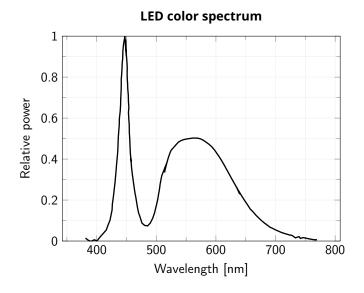


CONNECTOR PINOUT





Device side



COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.

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