

LT3BC050100-W | DATASHEET

High-power LED backlights with integrated driver











SPECIFICATIONS

Lighting specifications

Illumination area height	(mm)	50
Illumination area width	(mm)	100
Number of LEDs		72
Light color, peak wavelength		white, 5700 K
Spectral FWHM	(nm)	-
Illuminance, continuos ¹	(klux)	143
Irradiance, continuos ¹	(W/m ²)	401
Illuminance, boosted ¹	(klux)	285
Irradiance, boosted ¹	(W/m ²)	807
Illuminance, strobe ¹	(klux)	787
Irradiance, strobe ¹	(W/m ²)	2202
Diffuser		yes
Collimation film		optional

Mechanical specifications

Height	(mm)	58.0
Width	(mm)	126.0
Thickness	(mm)	24.0
Mass	(g)	248
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

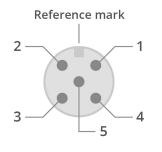
Electrical specifications		
Operating mode		Continuous and strobe
Supply voltage	(V)	24
Current, continuos	(mA)	280
Power consumption, continuos	(W)	6.75
Current, boosted	(mA)	560
Power consumption, boosted	(W)	13.5
Pear current, strobe	(mA)	1600
Peak power consumption, strobe	(W)	38.4
Min pulse duration	(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		1x M12 straight plug
Connector		male connector
Included cable		not included
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)

1 0.8 0.6 0.6 0.4 0.2 0.2 0 400 500 600 700 800 Wavelength [nm]

COMPATIBLE PRODUCTS

Full list of compatible products available here.



A wide selection of innovative machine vision components.