

# LTLNC100-IR850 | DATASHEET

# LED line light 100 mm, IR, 850 nm











#### **SPECIFICATIONS**

## **Lighting specifications**

Illumination area width	(mm)	100
Illumination area height	(mm)	15
Optimal working distance	(mm)	20-100
Number of LEDs		22
Light color, Peak wavelength		IR, 850 nm
Spectral FWHM	(nm)	30
Illuminance <sup>1</sup>	(klux)	-
Irradiance <sup>1</sup>	(W/m <sup>2</sup> )	n.a.

# **Electrical specifications**

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Supply voltage <sup>2</sup>	(V) 24	
Current <sup>2</sup>	(mA)	600
Power consumption	(W)	15
Typical pulse voltage	(V)	60
Max pulse current	(mA)	3000
Peak power consumption	(W)	180
Max pulse duration	(ms)	100
Max duty cycle	(%)	5
Estimated MTBF <sup>4</sup>	(hours)	> 20000
Connector		M8

<sup>&</sup>lt;sup>1</sup> Measured at minimum working distance

<sup>2</sup> ±2%

Included cable

- <sup>3</sup> With constant driving voltage
- <sup>4</sup> Drop tp 50% intensity @ 25°C

#### **KEY ADVANTAGES**

**Ultra high power** 

**Color matched white model** 

Condenser lens for a perfectly focused beam of light

**Rugged industrial design with built in industrial connector** for easy integration into any machine vision system.

Forced air cooling option

**LTLNC series** are ultra-high power LED line illuminators designed for line scan applications. Their special design provides both a powerful and homogeneous beam of light that is sharply focused onto the object that must be inspected, by means of a condenser lens.

## **Mechanical specifications**

Length	(mm)	150.0
Width	(mm)	32.0
Height	(mm)	60.0
Mass	(g)	150
Clamping system	4:	x M3 threaded holes
Cooling method	air compressed cooling or passive	

#### **Environment**

Operating temperature	(°C)	0-40	
Storage temperature	(°C)	0-50	
Operating relative humidity	(%)	20-85, non condensing	
Installation		Indoor use only	

## Eye safety

Risk group (CEI EN 62471:2010)	Risk group 2
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## **COMPATIBLE PRODUCTS**

## Full list of compatible products available here.

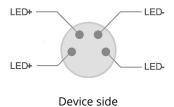


A wide selection of innovative machine vision components.

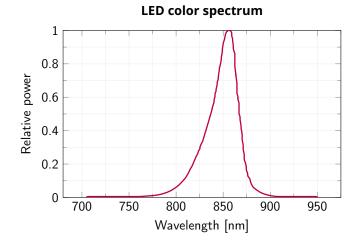
CBLT003 included



# **CONNECTOR PINOUT**



Function	Cable color
LED +	Brown
LED +	White
LED -	Blue
LED -	Black



# **LIGHT BEAM COARSE ADJUSTMENT**

Simply untighten the lateral screws to adjust the axial position of the condenser lens.

When the position is set, do not overthighten the screws to avoid damage to the condenser lens.



# **ADDITIONAL INFO**

**Lighting structure** 

