



# LTLNE-300-MR-F-D-FC-W | DATASHEET

OPTO ENGINEERING

LED line light, 45° mirror, 300 mm length, far focusing, fan cooling, white, 6200 K



## KEY ADVANTAGES

**High density LEDs.**

**3 types of projection lenses**

Near field focusing (N), far field focusing (F), collimated (C).

**3 opto-mechanical configurations**

Lens only, coaxial illumination (CX) or with 45° mirror (MR).

**2 cooling methods and power intensities**

Passive or active with fans.

**Optional diffusive sheet (D) for illumination uniformity**

Hot spots reduction when inspecting highly reflective surfaces.

**LTLNE series** are high power LED line illuminators designed for line scan applications. LTLNE series are available in three opto-mechanical versions: basic configuration with condensing lens, as coaxial line lights (CX) or integrating a 45° mirror (MR).



## SPECIFICATIONS

### Lighting specifications

Illumination area length	(mm)	300
Illumination area height	(mm)	20
Type		45° mirror
Focusing		far
Optimal working distance	(mm)	100-200
Number of LEDs		42
Light color, peak wavelength		white, 6200 K
Spectral FWHM	(nm)	-
Illuminance <sup>1</sup>	(klux)	n.a.
Diffuser		yes

### Electrical specifications

Supply voltage <sup>2</sup>	(V)	24
Current <sup>3</sup>	(mA)	4000
Power consumption	(W)	100
Estimated MTBF <sup>4</sup>	(hours)	> 20000
Connector		WEIPU SP1710/P9
Included cable		CBLT007 included

<sup>1</sup> Measured at minimum working distance

<sup>2</sup> ±2%

<sup>3</sup> With constant driving voltage

<sup>4</sup> Drop tp 50% intensity @ 25°C

### Mechanical specifications

Length	(mm)	340.0
Width	(mm)	177.0
Height	(mm)	40.0
Mass	(g)	2800
Clamping system		8x M4 threaded holes
Cooling method		fan

### Environment

Operating temperature	(°C)	0-40
Storage temperature	(°C)	-20-+60
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

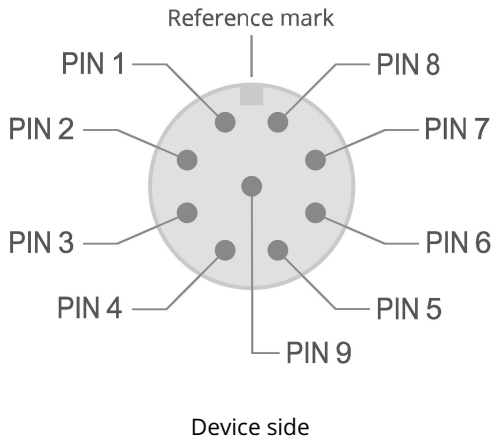
Full list of compatible products available [here](#).



A wide selection of innovative machine vision components.

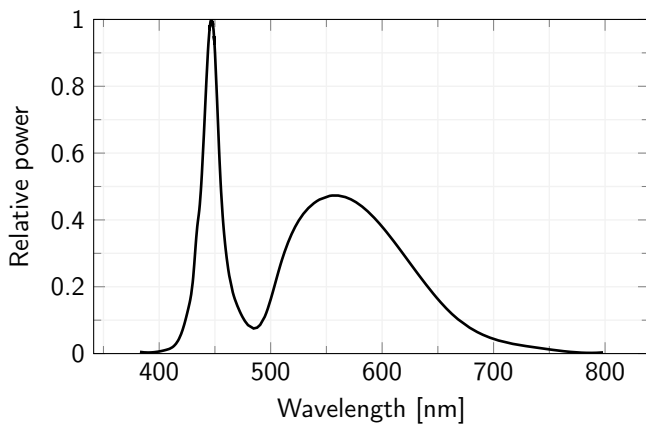
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**CONNECTOR PINOUT**



Pin	Function	Description	Cable color
1	LED+	Light supply: positive terminal	White
2	LED+	Light supply: positive terminal	Brown
3	LED-	Light supply: negative terminal	Green
4	LED-	Light supply: negative terminal	Yellow
5	NTC+	Thermal sensor input: positive terminal	Grey
6	NTC-	Thermal sensor input: negative terminal	Pink
7	FAN-	Fan supply: negative terminal	Blue
8	FAN+	Fan supply: positive terminal	Red
9		Not used	

**LED color spectrum**



**ADDITIONAL INFO**

**Lighting structure**

**Type**

**Projection lenses and focusing distances**

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