



LTLNC150-R | DATASHEET

LED line light 150 mm, red, 625 nm



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.

SPECIFICATIONS

Lighting specifications

| | | |
|------------------------------|---------------------|-------------|
| Illumination area width | (mm) | 150 |
| Illumination area height | (mm) | 15 |
| Optimal working distance | (mm) | 20-100 |
| Number of LEDs | | 27 |
| Light color, Peak wavelength | | red, 625 nm |
| Spectral FWHM | (nm) | 20 |
| Illuminance ¹ | (klux) | n.a. |
| Irradiance ¹ | (W/m ²) | - |

Electrical specifications

| | | |
|-----------------------------|---------|------------------|
| Supply voltage ² | (V) | 24 |
| Current ² | (mA) | 1500 |
| Power consumption | (W) | 36 |
| Typical pulse voltage | (V) | 31 |
| Max pulse current | (mA) | 3000 |
| Peak power consumption | (W) | 93 |
| Max pulse duration | (ms) | 100 |
| Max duty cycle | (%) | 5 |
| Estimated MTBF ⁴ | (hours) | > 20000 |
| Connector | | M8 |
| Included cable | | CBLT003 included |

¹ Measured at minimum working distance

² ±2%

³ With constant driving voltage

⁴ Drop tp 50% intensity @ 25°C

Mechanical specifications

| | | |
|-----------------|------|-----------------------------------|
| Length | (mm) | 200.0 |
| Width | (mm) | 32.0 |
| Height | (mm) | 60.0 |
| Mass | (g) | 200 |
| Clamping system | | 4x 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 |
|--------------------------------|--|--------------|

COMPATIBLE PRODUCTS

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



A wide selection of innovative machine vision components.

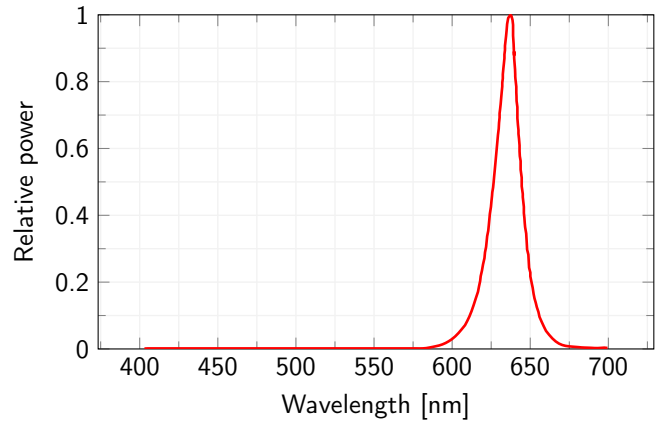
All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only. Data are reported by design, actual lens performance may vary due to manufacturing tolerances.

CONNECTOR PINOUT



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

LED color spectrum



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 overtighten the screws to avoid damage to the condenser lens.



ADDITIONAL INFO

Lighting structure

