



# LTLNE-300-C-D-FC-W | DATASHEET

LED line light, direct, 300 mm length, collimated 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                         |        | direct        |
| Focusing                     |        | collimated    |
| Optimal working distance     | (mm)   | 10-200        |
| 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) | 130.0                |
| Height          | (mm) | 40.0                 |
| Mass            | (g)  | 2500                 |
| 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 |
|--------------------------------|--|--------------|

### COMPATIBLE PRODUCTS

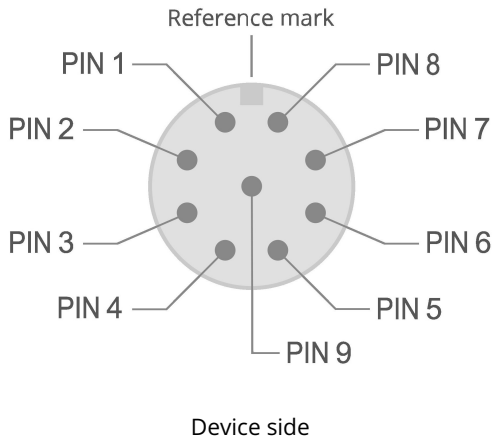
Full list of compatible products available [here](#).



A wide selection of innovative machine vision components.

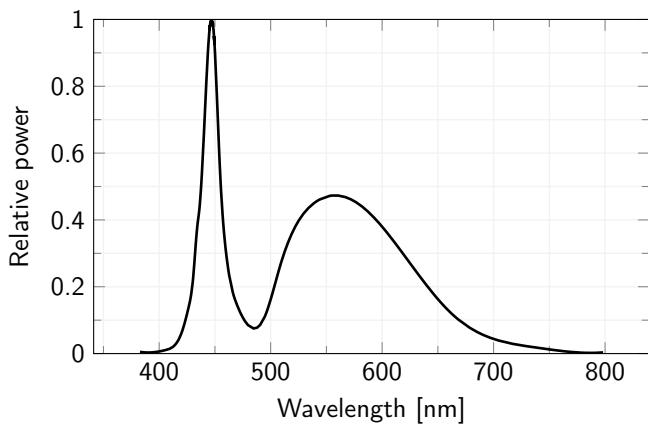
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**CONNECTOR PINOUT**

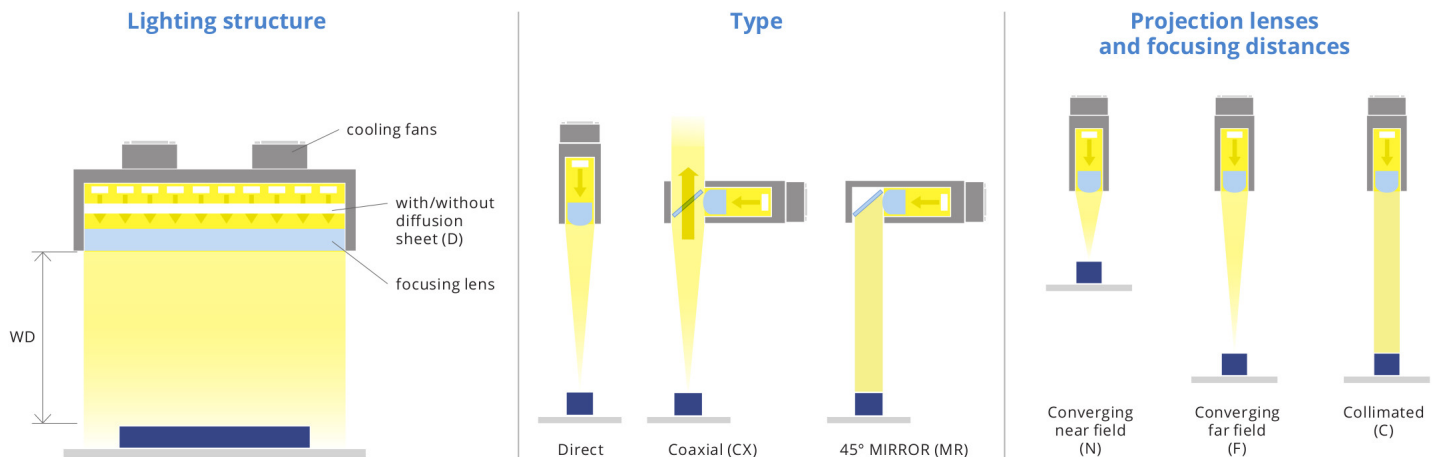


| Pin | Function | Description                             | Cable color |
|-----|----------|---|-------------|
| 1   | LED+     | Light supply: positive terminal         | White       |
| 2   | LED+     | Light supply: positive terminal         | Brown       |
| 3   | LED-     | Light supply: negative 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**



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