

## Modular LED line light, 1000mm length, collimated, fan cooling, white



### KEY ADVANTAGES

Emitting surface up 2 meters in 200 mm increments.

Flicker free for line scan applications.

3 types of projection lenses

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

Homogeneous beam for uniform illumination.

Built-in controller

**LTLNM series** are high power LED line illuminators designed for line scan applications. These lights are flicker-free and meet the needs of demanding applications with reduced exposure times (tens of  $\mu$ s) ensuring very constant illumination and repeatable acquisition. Their modular design provides size flexibility without any compromise in terms of light uniformity.

### SPECIFICATIONS

#### Lighting specifications

Modules		5
Illumination area length	(mm)	1000
Illumination area height	(mm)	20
Focusing		collimated
Optimal working distance	(mm)	10-200
Number of LEDs		240
Light color, peak wavelength		white, 6200 K
Spectral FWHM	(nm)	-
Illuminance <sup>1</sup>	(klux)	n.a.
Diffuser		no

#### Electrical specifications

Supply voltage <sup>2</sup>	(V)	24
Current	(A)	15
Power consumption	(W)	360
Estimated MTBF <sup>3</sup>	(hours)	> 20000
Power connector		WEIPU SP2110/P2
Power Cables		CBLT008 included
I/O connector		M12, 5 pins
I/O cables		CBLT009 included

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

<sup>2</sup>  $\pm 2\%$

<sup>3</sup> Drop to 50% intensity @ 25°C

#### Mechanical specifications

Length	(mm)	1050.0
Width	(mm)	75.0
Height	(mm)	128.0
Mass	(g)	9500
Clamping system		4x M10 threaded holes
Cooling method		fan

#### 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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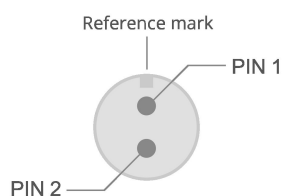
### COMPATIBLE PRODUCTS

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



A wide selection of innovative machine vision components.

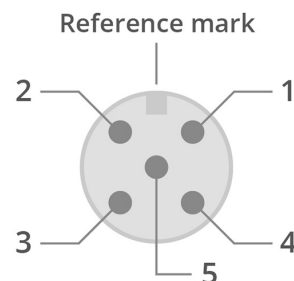
## POWER CONNECTOR PINOUT



Illuminator side. Front view

Pin	Description	Cable Color
1	Positive power supply (24V)	Brown
2	Negative power supply (GND)	Blue

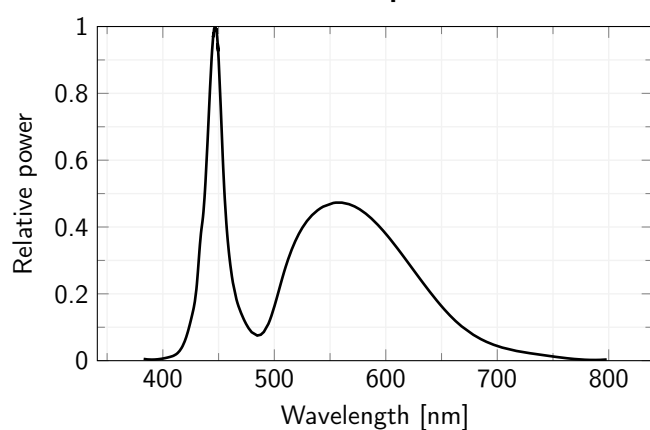
## I/O CONNECTOR PINOUT



Illuminator side. Front view

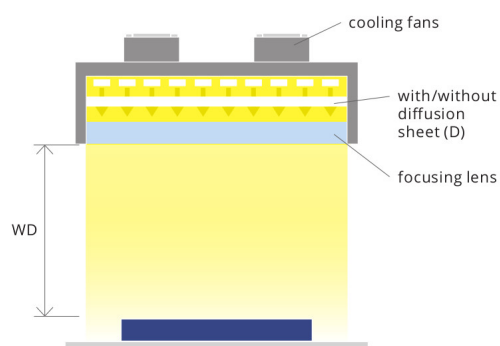
Pin	Function	Description	Cable Color
1	Enable	Connect to a +24Vdc to turn the light ON	Brown
2	Fault	Internally pulled-up to +24Vdc	White
3	Signal GND	Internally connected to power GND	Blue
4	10V output	10V reference signal for dimming	Black
5	Dimming control	Voltage signal for dimming control	Green

LED color spectrum

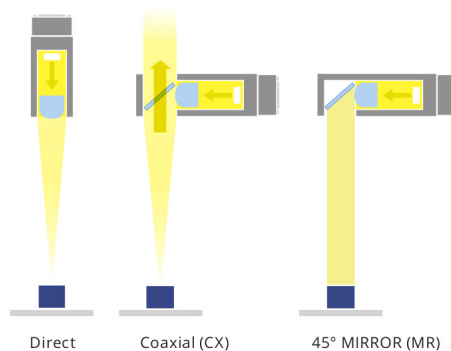


## ADDITIONAL INFO

## Lighting structure



## Type



## Projection lenses and focusing distances

