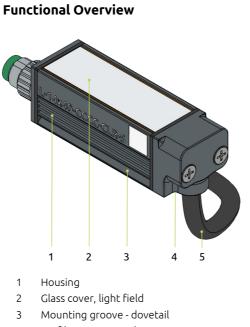


# L-14x160-W5K5-W-DIF-S

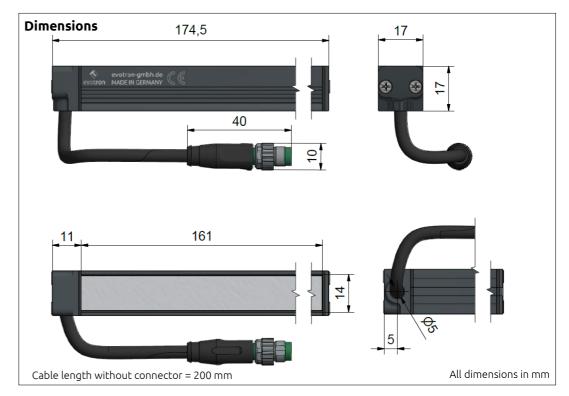
Diffused homogeny LED line light for industrial image processing



Made in GERMANY © evotron 2019-02



- 4 Profile groove M3 hexagon screws
- 5 Robotics connection cable with M8 plug



#### **Connection plan**

The LED lighting must be controlled with a suitable constant current source!

Suitable for operation are evotronLIGHT lighting controllers or other commercially available LED controllers with a regulated current output. (see technical data)

#### Pin Assignment M8 male 4-pin



\* this pins only use for LED-Lightings with evotronLIGHT-Technology

#### IMPORTANT NOTICE



Do not connect the LED lighting directly to a 24V power source or to any power supply.

Technical Data			
LED-Colour, Temperature	White, 5500 K		
Radiation Angle	diffused light		
Optical Material	Glass		
Dimension Light Field (B x L)	14 mm x 161 mm		
Dimension Housing (H x B x L)	17 mm x 17 mm x 174.5 mm		
Housing Material	Aluminium / PA12		
Weight	103 g		
Protection Rating	IP 67		
Protection Class	III, Safety Extra Low Voltage (SELV)		
Risk Group (DIN EN 62471)	Free Group		
Thermal Protection T <sub>MAX</sub>	85 °C		
Plug type	M8-male, 4-pin		
Continuous Operation	Min	Nom	Max
LED-Current	0 A	400 mA	400 mA
LED-Forward Voltage	-	10.8 V	13.6 V
Power Consumption	0 W	4.3 W	5.4 W
Flash Mode	Min	Nom	Max
LED-Current	0 A	-	2.4 A
LED-Forward Voltage	-	-	22.0 V
Power Consumption @ Pulse (t <sub>PULS</sub> 100 µs)	0 W	-	52.8 W
1			

# CE

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#### Intended Use

This LED lighting is intended solely for use in the field of industrial automation technology, laboratory metrology and industrial image processing.

The permissible ambient conditions for the transport, assembly and operation of the module must be observed.



tpuls [s]

1.0E-1

Operate this LED line light only in perfect, undamaged condition.

Configure the application so that the LED lighting is always within its technical specification.

Improper installation can damage the LED lighting.

Installation, assembly and commissioning must be carried out by qualified personnel.



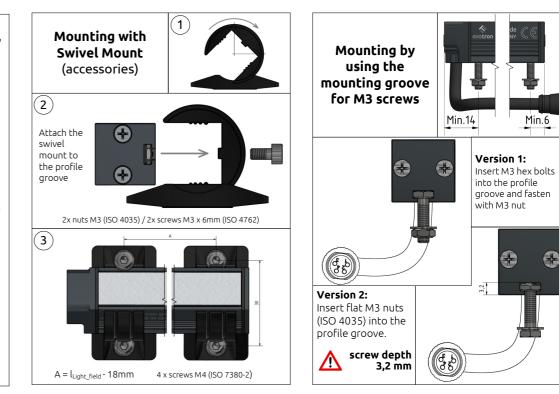
Flickering, glare and stroboscopic effects can cause psychological disorders such as headache, discomfort or fatigue.



A strong glare effect may cause a temporary reduction in eyesight, which may cause irritations or accidents.



The lighting surface can reach a housing temperature of > 55 °C during operation. Do not cover or touch the lightings during operation.



#### Putting into operation

Operate the LED lighting exclusively with the parameters specified under the item Technical data.

For the flash mode, you can read off the required minimum OFF-time  $t_{off}$  directly from the pulse timing diagram depending on the selected LED flash current and the desired flash duration  $t_{puls}$ .

The LED lighting is intended for use with a suitable LED constant current source.

### Cleaning

LED Current

You can clean the outside of the lighting with a damp cloth. For the glass surface use a cleaner that is suitable for optical components.

Make sure that your cleaning solvent is approved for the material used.

## Technical Support

Questions concerning our products will be answered by our technical support:

support@evotron-gmbh.de

+49 (0) 3681 / 4529951



This product is RoHS compliant.

Instructions for the proper disposal of old devices can be obtained from the manufacturer, local sales partner or relevant national authority.

Alternatively, this product may be returned to the manufacturer for proper disposal.

Packaging and packaging aids are recyclable and should always be recycled.

The product itself must not be disposed of in the domestic waste.



— 1.2 A — 1,6 A 1,0E-2 ----- Limit 1.0E-3 1.0E-4 1,0E-5 1.0F-6 1,0E-7 1,0E-6 1,0E-5 1.0E-4 1,0E-3 1,0E-2 1,0E-1 1,0E+0 toff [s]

#### LED Pulse-Timing Diagram

