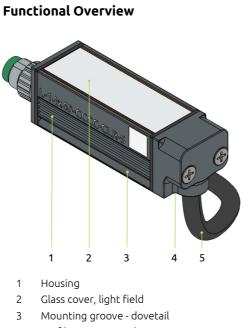


I-14x160-IR860-W-DIF-S

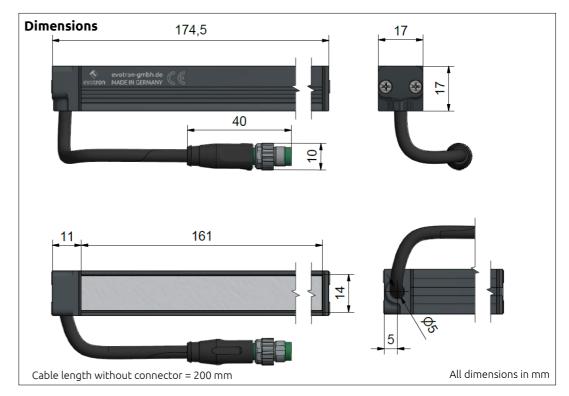
Diffused homogeny LED line light for industrial image processing



Made in GERMANY © evotron 2019-02



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



Connection plan

1

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

Technical Data

LED-Forward Voltage

Power Consumption @ Pulse (t_{PULS} 300 µs)

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.

LED-Colour, Wavelength Infrared, 860 nm 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 III, Safety Extra Low Voltage (SELV) Protection Class Risk Group (DIN EN 62471) Free Group Thermal Protection T_{MAX} 85 °C Plua type M8-male, 4-pin Continuous Operation LED-Current 0 A 800 mA 800 mA LED-Forward Voltage 12.4 V 13.6 V _ **Power Consumption** 0 W 9.9 W 10.9 W Flash Mode Nom LED-Current 0 A 5.6 A

0 W

16.0 V

89.6 W

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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.

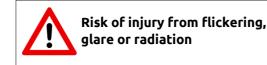


Operate this LED line light only in perfect, undamaged condition.

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

Improper installation can damage the LED lighting.

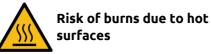
Installation, assembly and commissioning must be carried out by qualified personnel.



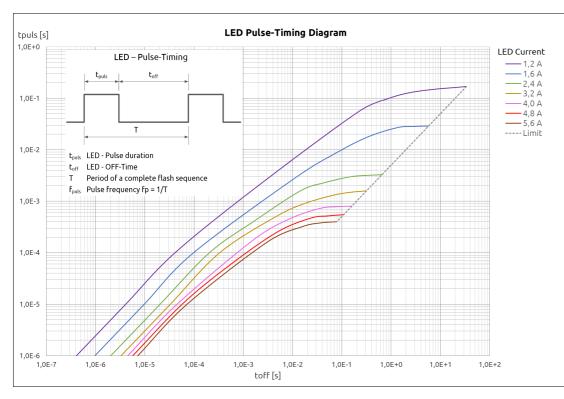
Flickering, glare and stroboscopic effects can cause psychological disorders such as headache, discomfort or fatigue.



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



The lighting surface can reach a housing temperature of > 55 $^{\circ}$ C during operation. Do not cover or touch the lightings during operation.



1 Mounting with Mounting by **Swivel Mount** using the (accessories) mounting groove for M3 screws (2) Min.14 Attach the æ swivel mount to Version 1: £ Ŧ the profile Insert M3 hex bolts Æ aroove into the profile groove and fasten with M3 nut 2x nuts M3 (ISO 4035) / 2x screws M3 x 6mm (ISO 4762) (3) de to Version 2: Insert flat M3 nuts (ISO 4035) into the profile groove. screw depth /! 3,2 mm A = l_{Light field} - 18mm 4 x screws M4 (ISO 7380-2)

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

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

Disposal

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.



Min.6

WEEE-Reg.-Nr. DE85473784