

L-14x160-B465-W-DIF-S

Diffused homogeny LED line light for industrial image processing



Made in GERMANY © evotron 2019-02

Functional Overview 1 2 3 4 5 1 Housing 2 Glass cover, light field 3 Mounting groove - dovetail

Dimensions

Technical Data

Radiation Angle

Optical Material

Housing Material

Protection Rating

Protection Class

Weight

Plua type

LED-Current

Flash Mode

LED-Current

LED-Colour, Wavelength

Dimension Light Field (B x L)

Dimension Housing (H x B x L)

Risk Group (DIN EN 62471)

Thermal Protection T_{MAX}

Continuous Operation

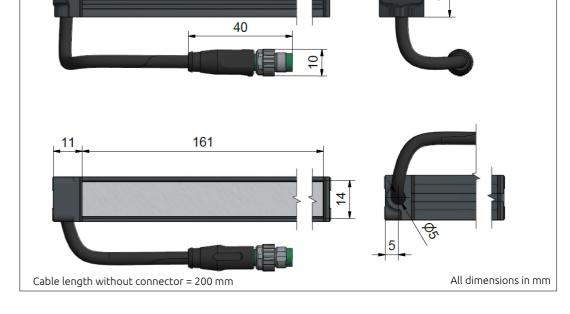
LED-Forward Voltage

Power Consumption

LED-Forward Voltage

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

174,5



Blue, 465 nm

diffused light

14 mm x 161 mm

Aluminium / PA12

17 mm x 17 mm x 174.5 mm

III, Safety Extra Low Voltage (SELV)

240 mA

11.6 V

2.8 W

Nom

240 mA

17.8 V

4.2 W

2.4 A

22.0 V

52.8 W

Glass

103 g

IP 67

85 °C

0 A

0 W

0 A

0 W

Free Group

M8-male, 4-pin

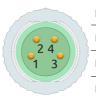
Connection plan

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

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

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



	PIN 1	brown	+I _{LED}
	PIN 2	withe	SD*
	PIN 3	blue	-I _{LED}
	PIN 4	black	SG *

* 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.

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.



Safety Notes

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.



Risk of injury from flickering, glare or radiation

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



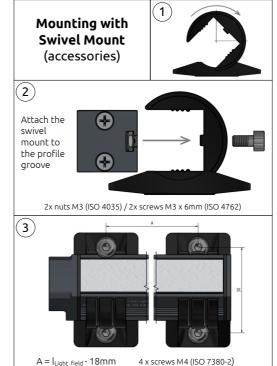
Risk of glare

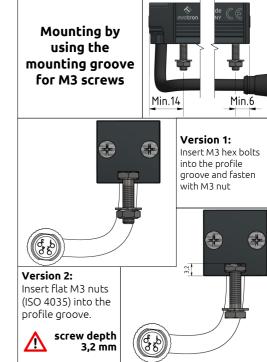
A strong glare effect may cause a temporary reduction in eyesight, which may cause irritations or accidents.

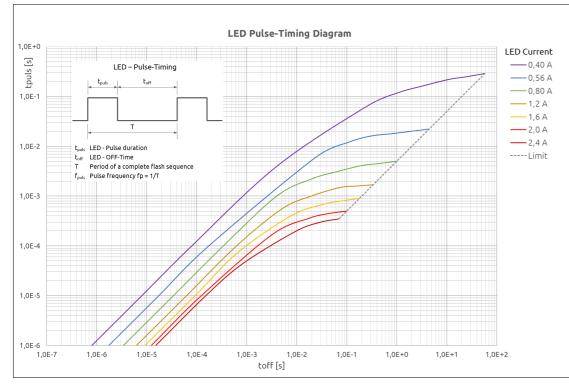


Risk of burns due to hot surfaces

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 $t_{\rm off}$ directly from the pulse timing diagram depending on the selected LED flash current and the desired flash duration $t_{\rm puls}$.

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.



WEEE-Reg.-Nr. DE85473784