

L-14x160-R645-M-CLR-S

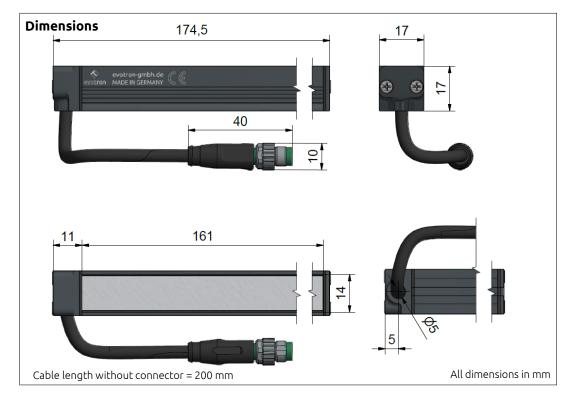
Directed 30 degree LED line light for industrial image processing



★ www.evotron-gmbh.de

Made in GERMANY © evotron 2019-02

Functional Overview Housing Glass cover, light field Mounting groove - dovetail



Red, 645 nm

Connection plan

The LED lighting must be controlled with a suitable

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



	constant current source!	Radiation Angle	30°		
	Suitable for operation are evotronLIGHT lighting	Optical Material	Glass		
	controllers or other commercially available LED	Dimension Light Field (B x L)	14 mm x 161 mm		
CE	controllers with a regulated current output.	Dimension Housing (H x B x L)	17 mm x 17 mm x 174.5 mm		
	(see technical data)	Housing Material	Aluminium / PA12		
	Weight		103 g		
	Pin Assignment M8 male 4-pin	Protection Rating	IP 67		
		Protection Class	III, Safety Extra Low Voltage (SELV)		
	PIN 1 brown +I _{LED} PIN 2 withe SD *	Risk Group (DIN EN 62471)	Free Group		
		Thermal Protection T _{MAX}	85 °C		
		Plug type	M8-male, 4-pin		
	1 3 PIN 3 blue -I _{LED}	Continuous Operation	Min	Nom	Max
	PIN 4 black SG *	LED-Current	0 A	560 mA	560 mA
		LED-Forward Voltage	-	8.6 V	9.2 V
evotron GmbH & Co. KG	* this pins only use for LED-Lightings with evotronLIGHT-Technology	Power Consumption	0 W	4.8 W	5.2 W
Pfütschbergstraße 16					
_	IMPORTANT NOTICE	Flash Mode	Min	Nom	Max
98527 Suhl /Germany		LED-Current	0 A	-	800 mA
← +49 (0) 3681-4529950☑ info@evotron-gmbh.de	Do not connect the LED lighting directly to a 24V power source or to	LED-Forward Voltage	-	-	10 V
	any power supply.	Power Consumption @ Pulse (t _{PULS} 900 ms)	0 W	-	8 W
	 				

Technical Data LED-Colour, Wavelength

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.



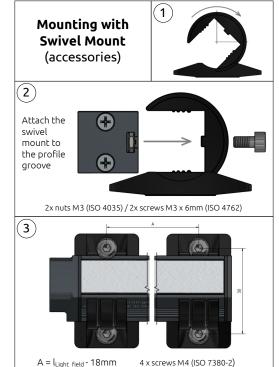
Risk of glare

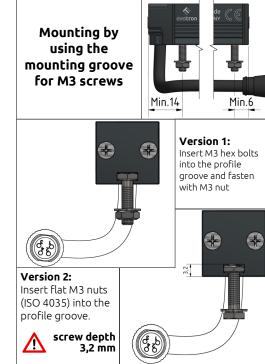
A strong glare effect may cause a temporary reduction in eyesight, which may cause irritations or accidents.

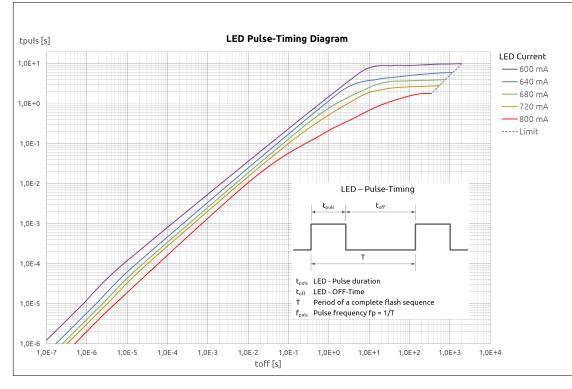


Risk of burns due to hot surfaces

The lighting surface can reach a housing temperature of $> 55\,^{\circ}\text{C}$ 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 $t_{\rm outs}$.

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