

Baumer ZVI-BL-310/27-1550

Article number: 11729038

Overview

- Flashable SWIR LED bar light
- Wavelength 1550 nm
- Radiation angle 45°
- Integrated LED controller with 4 operating modes
- IP54



Picture similar





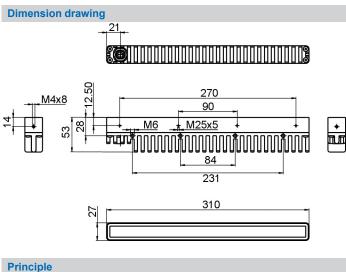


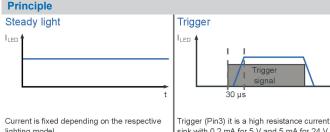
Technical data	
General data	
Manufacturer	Baumer
Illumination data	
Color / Peak wavelength	SWIR / 1550 nm
Beam angle	45°
Operating modes	steady light steady light with brightness control flashed light with PNP sourcing flashed light with NPN sourcing
Radiation intensity	1.9 W/sr ±7 %
Recommended illumination distance	50 mm 400 mm
Electrical data	
Connectors	M12/5-pin male connector
Operating voltage	24 VDC
Maximum flash duration	20 ms
Power consumption	approx. 19 W (steady light) approx. 35 W (flashed light)

Mechanical data	
Construction design	bar light
Dimensions	27 mm x 310 mm x 53 mm
Dimensions luminous area	17 mm x 300 mm
Material of cover glass	PMMA (acrylic glass)
Material of housing	aluminum (anodized, black)
Weight	≤ 650 g
Environmental conditions	
Operating temperature	0 +30 °C 0 +45 °C with thermal connection
Operating temperature Conformity	
	0 +45 °C with thermal connection CE

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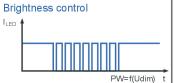




lighting model.

Trigger (Pin3) it is a high resistance current sink with 0.2 mA for 5 V and 5 mA for 24 V. High = 5...24 V=ON

0...1 V=OFF Low =



DIM (Pin2) is used as brightness control and operation mode switch. It's a high resistance current sink with 0.2 mA for 5 V and 1 mA for 24 V.

PWM frequency: 3.8 kHz

Min. exposure time: 5 ms

Flash light

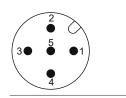
Triggered flash light with overdrive current and time-out for LED protection.

Max. flash time: 20 ms Latency (trigger -> LED ON): max 30µs
Max. clock speed: 1 kHz
Max. duth con-1

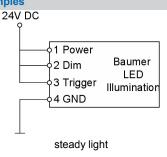
Max. duty cycle: 25 %

Pin assignment

M12 connector, 5-pin Pin Core color Description 1 24 VCD brown 2 white Dim 3 blue Trigger 4 black Ground 5 grey-yellow not used



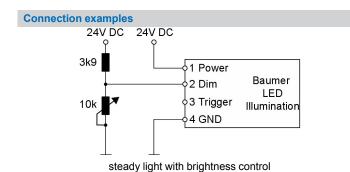
Connection examples

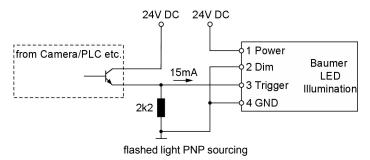


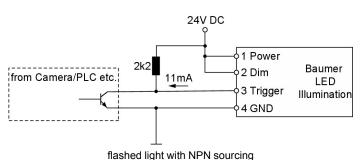


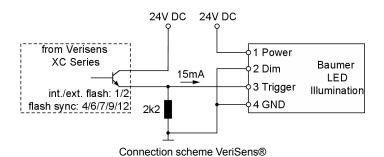
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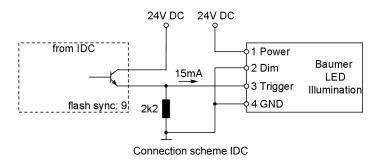
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Safety notes









Read the warning and application instructions carefully and completely before working with this device.

Only operate the illumination in compliance with the prescribed protective measures. It is essential to ensure compliance with the permissible ambient conditions.

The device is only designed for indoor use.

Light:

Due to the risk of eye irritation or injury, it is not recommended to look directly into the light source. Due to the non-visible nature of SWIR wavelengths, the product is equipped with a

equipped with a green control diode. This is located in the LED field. Green light from the diode indicates that the light source is operating. The illumination system must be switched off before installation and/or maintenance. The device must not be used if incorrect operation may cause personal injury.

Heat:

The surface temperature may exceed 60 °C if heat dissipation is inadequate or when the illumination is operated in flash mode with an excessively high duty cycle. Keep away from flammable materials by all means.

Electricity:

The housing is electrically isolated from the power supply ground. Exceeding the permissible input voltage Uin or ULED(+) may cause damage to the device or significantly shorten the service life of the LEDs within the device.

Usage:

Do not apply mechanical stress to the luminous area during operation. This will result in inhomogeneous light emission.

Cleaning:

The light surface must be cleaned with a conventional glass cleaner and a soft cleaning cloth. Avoid using other cleaning agents as these can damage the device.

Installation:

To maximize the service life of the LED, it is important to avoid heat build-up. To do so, install the lighting with a proper thermal connection. Be sure to hand-tighten the cables, do not overtighten.