

Illumination / Illumination accessories

Baumer ZVI-BL-310/27-1450

Article number: 11729037

Overview

- Flashable SWIR LED bar light
- Wavelength 1450 nm
- Radiation angle 45°
- Integrated LED controller with 4 operating modes
- IP54



Picture similar



SWIR

Technical data

General data				
Manufacturer	Baumer			
Illumination data				
Color / Peak wavelength	SWIR / 1450 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	3.0 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. 36 W (flashed light)			

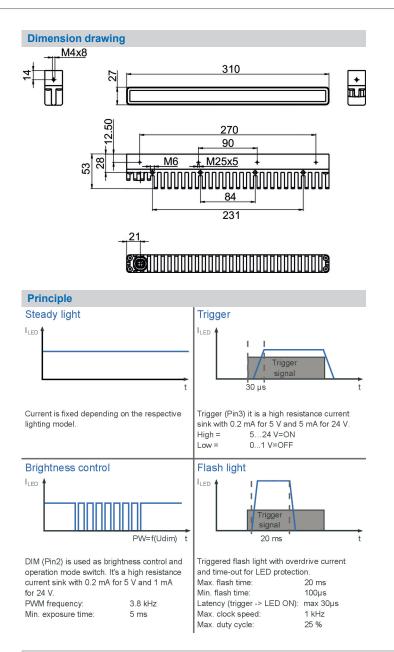
Mechanical data	
Construction design	bar light
Dimensions	27 mm x 310 mm x 53 mm
Dimensions luminous area	17 mm x 300 mm
Material of cover glass	PMMA (acrylic glass)
Material of housing	aluminum (anodized, black)
Weight	≤ 650 g
Environmental conditions	
Operating temperature	0 +30 °C 0 +45 °C with thermal connection
Conformity	CE RoHS
Humidity	30 70 %
Protection class	IP 54



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Pin assignment

M12 connector, 5-pin			Connection examples
Pin	Core color	Description	24V DC
1	brown	24 VCD	Ŭ
2	white	Dim	1 Power
3	blue	Trigger	2 Dim Baumer
4	black	Ground	→3 Trigger Illumination
5	grey-yellow	not used	4 GND
	2		



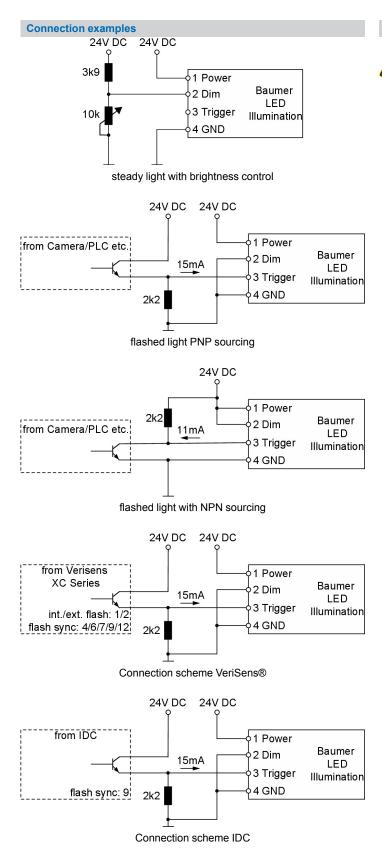
steady light



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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.