

## Overview

- Flashable red LED bar light
- Red (625 nm)
- Radiation angle 100°
- Integrated LED controller with 4 operating modes
- IP54



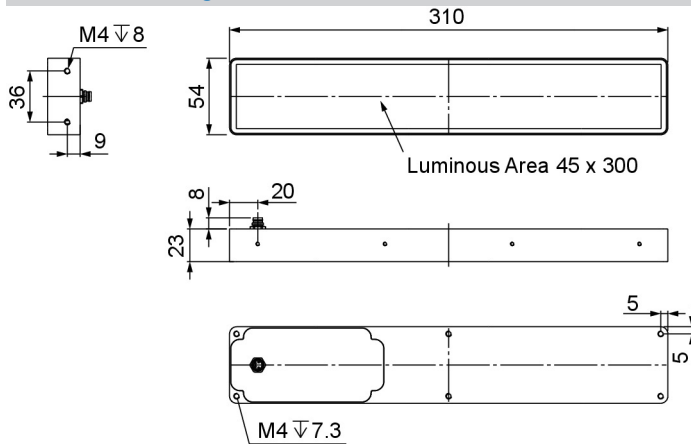
Picture similar



## Technical data

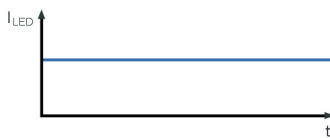
General data		Mechanical data	
Manufacturer	Baumer	Construction design	bar light
Illumination data		Dimensions	54 mm x 310 mm x 23 mm
Color / Peak wavelength	Red (625 nm)	Dimensions luminous area	45 mm x 300 mm
Beam angle	100°	Material of cover glass	PMMA (acrylic glass)
Operating modes	steady light steady light with brightness control flashed light with PNP sourcing flashed light with NPN sourcing	Material of housing	aluminum (anodized, black)
Recommended illumination distance	10 mm ... 500 mm	Weight	≤ 560 g
Electrical data		Environmental conditions	
Connectors	M8/4-pin male connector	Operating temperature	0 ... +30 °C 0 ... +45 °C with thermal connection
Operating voltage	24 VDC	Conformity	CE RoHS
Maximum flash duration	20 ms	Humidity	30 ... 70 %
Power consumption	approx. 18 W (steady light) approx. 56 W (flashed light)	Protection class	IP 54

**Dimension drawing**



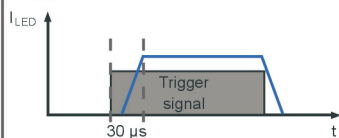
**Principle**

**Steady light**



Current is fixed depending on the respective lighting model.

**Trigger**



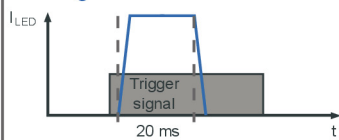
Trigger (Pin3) is a high resistance current sink with 0.2 mA for 5 V and 5 mA for 24 V.  
High = 5...24 V=ON  
Low = 0...1 V=OFF

**Brightness control**



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**

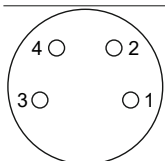


Triggered flash light with overdrive current and time-out for LED protection.  
Max. flash time: 20 ms  
Min. flash time: 100 μs  
Latency (trigger -> LED ON): max 30 μs  
Max. clock speed: 1 kHz  
Max. duty cycle: 25 %

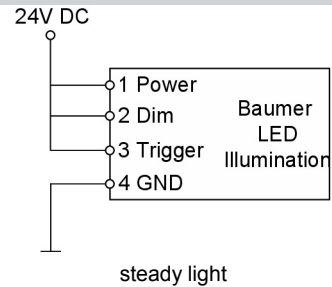
**Pin assignment**

**M8 socket, 4-pin**

Pin	Core color	Description
1	brown	24 VDC
2	white	Dim
3	blue	Trigger
4	black	Ground

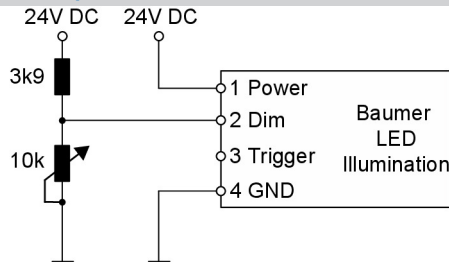


**Connection examples**

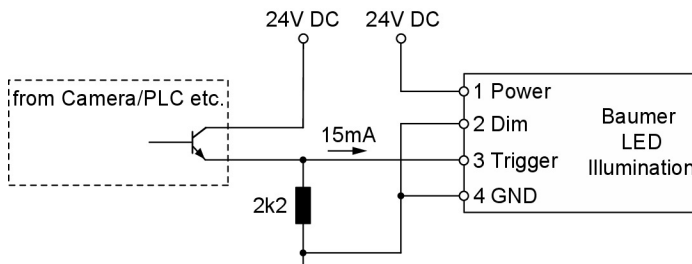


steady light

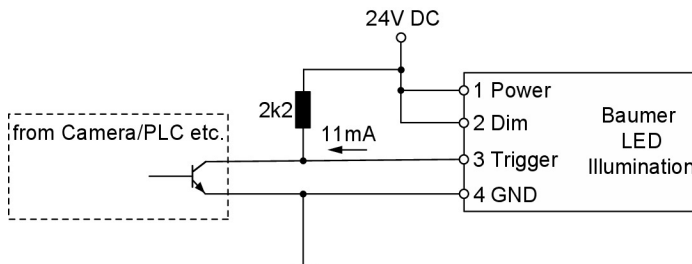
### Connection examples



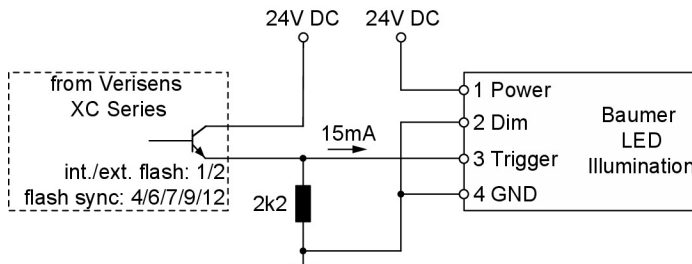
steady light with brightness control



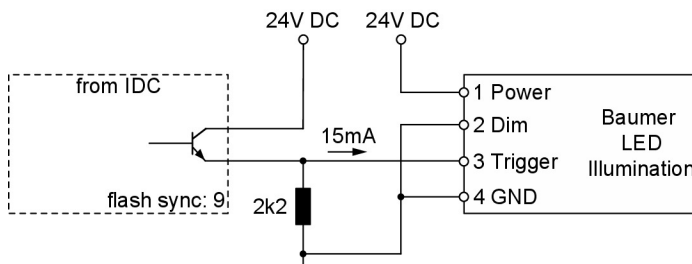
flashed light PNP sourcing



flashed light with NPN sourcing



Connection scheme VeriSens®



Connection scheme IDC

### 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. 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  $U_{in}$  or  $U_{LED(+)}$  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.