

## Overview

- Automatic adjustment of exposure time for precise measurements on changing materials
- High immunity to ambient light for reliable measurements regardless of ambient conditions
- Point beam shape for a precise measurement



Picture similar



## Technical data

### General data

Type	Distance measuring
Measuring distance Sd	16 ... 120 mm
Measuring range Mr	104 mm
Adjustment	Teach-in: button / external
Power on indication	LED green
Output indicator	LED red
Repeat accuracy	8 ... 100 µm
Linearity error	± 0.14 % Mr , 16 ... 70 mm ± 0.19 % Mr , 16 ... 120 mm
Beam type	Point
Temperature drift	0,04 % Sde/K

### Light Source

Light source	Pulsed red laser diode
Wave length	660 nm
Laser class	2
Maximum pulse power	2 mW
Pulse duration	0.001 ... 1.2 ms
Pulse period	0.2 ... 3.4 ms

### Electrical data

Response delay	0.4 ms
Measuring frequency	5000 Hz
Voltage supply range +Vs	12 ... 28 VDC
Current consumption max. (no load)	50 mA

### Electrical data

Output circuit	Analog
Output signal	0 ... 10 VDC
Load resistance	> 100 kOhm
Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND

### Mechanical data

Width / diameter	13 mm
Height / length	37 mm
Depth	34.5 mm
Type	Rectangular, front view
Housing material	Die-cast zinc
Front (optics)	Glass
Connection types	Connector M8 4 pin
Weight	41 g

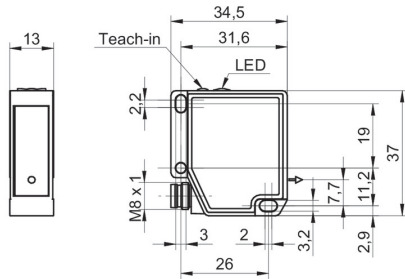
### Ambient conditions

Ambient light immunity	< 100 kLux
Protection class	IP 67
Operating temperature	-10 ... +50 °C
Storage temperature	-20 ... +60 °C
Vibration (sinusoidal)	IEC 60068-2-6:2008 1 mm p-p at f = 10 - 55 Hz, duration 5 min per axis 30 min endurance at f = 55 Hz per axis
Shock (semi-sinusoidal)	IEC 60068-2-27:2009 30 g / 11 ms, 6 jolts per axis and direction

## Remarks

- Measurement with Baumer standardized measuring equipment and targets (Measurement on 90% remission (white)).

## Dimension drawing



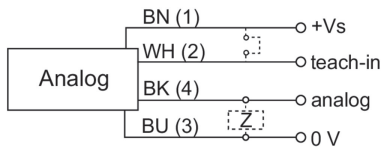
## Laser warning



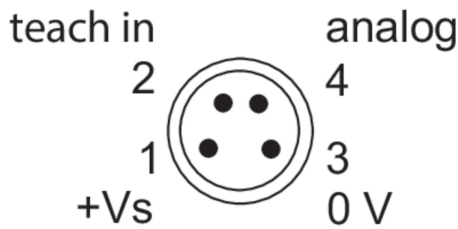
**LASER RADIATION**  
**DO NOT STARE INTO BEAM**  
Wavelength: 640...670nm  
IEC 60825-1, Ed. 3, 2014  
**CLASS 2 LASER PRODUCT**

IEC 60825-1/2014 Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

## Connection diagram



## Pin assignment



## Beam characteristic (typically)

