

**Overview**

- Automatic adjustment of exposure time for precise measurements on changing materials
- High immunity to ambient light for reliable measurements regardless of ambient conditions
- Line beam shape for particularly robust measurement results on structured surfaces
- Adjustable filters for particularly stable measurement results



Picture similar



**Technical data**

**General data**

Type	Distance measuring
Measuring distance Sd	50 ... 100 mm
Measuring range Mr	50 mm
Adjustment	Teach-in: button / RS485
Power on indication	LED green
Output indicator	LED yellow
Repeat accuracy	1 ... 3 µm
Linearity error	± 0,08 % Mr
Beam type	Line
Temperature drift	0,02 % Sde/K

**Light Source**

Light source	Pulsed red laser diode
Wave length	660 nm
Laser class	2
Maximum pulse power	1.2 mW
Pulse duration	0.001 ... 1.7 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)	100 mA
Output circuit	RS485
Short circuit protection	Yes

**Electrical data**

Reverse polarity protection	Yes, Vs to GND
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**Communication interface**

Interface	RS485
Baud rate	57600, adjustable
Protocol	Modbus RTU

**Mechanical data**

Width / diameter	40,3 mm
Height / length	49 mm
Depth	13,6 mm
Type	Rectangular, front view
Housing material	Die-cast zinc
Front (optics)	Glass
Connection types	Connector M8 4 pin
Weight	67 g

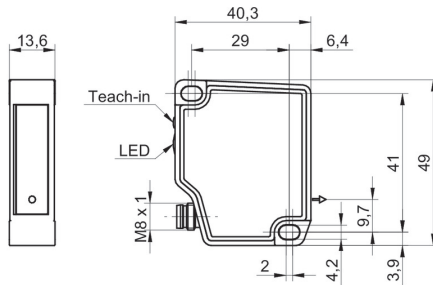
**Ambient conditions**

Ambient light immunity	< 100 kLux
Operating temperature	-10 ... +50 °C
Protection class	IP 67
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

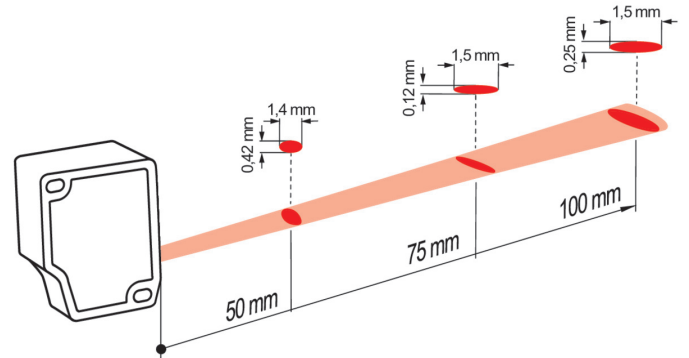
**Remarks**

- Measurement with Baumer standardized measuring equipment and targets (Measurement on 90% remission (white)). Values of Resolution, linearity error and repeat accuracy apply to a measurement with filter setting (Median: 9, Average: 128).

**Dimension drawing**



**Beam characteristic (typically)**



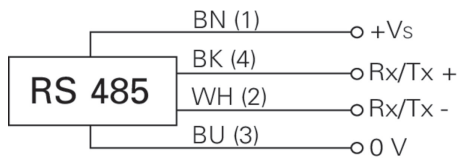
**Laser warning**



**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**

