Baumer
Passion for Sensors

Diffuse sensors with background suppression

OM30.GM-NLZZB.7WN

Article number: 11708802

Overview

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

Picture similar

Technical data

General data	
Type	Background suppression
Sensing distance Tw	50 … 550 mm
Sensing range Tb	50 … 550 mm
Repeat accuracy	2 … 86 µm
Power on indication	LED green
Output indicator	LED red
Beam type	Point
Light Source	
Light source	Pulsed red laser diode
Laser class	2
Wave length	660 nm
Maximum pulse power	2 mW
Pulse duration	0.001 ... 1.2 ms
Pulse period	0.2 ... 3.4 ms
Electrical data	
Response time / release time	< 6.7 ms
Voltage supply range +Vs	12 … 28 VDC
Current consumption max. (no load)	50 mA
Output function	Light / dark operate
Output circuit	NPN

Electrical data	
Output current	< 100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND
Mechanical data	
Width / diameter	13.6 mm
Height / length	49 mm
Depth	40.3 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
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

The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.
2023-07-13

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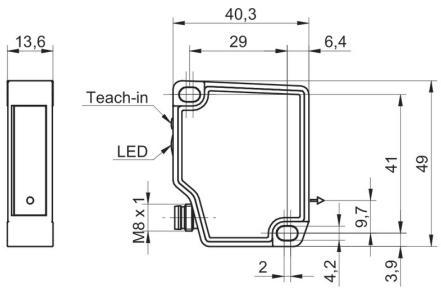
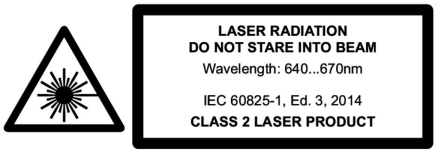
Dimension drawing

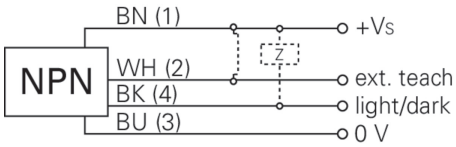


Laser warning

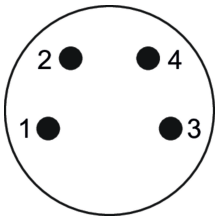


IEC 60825-1/2014 Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019

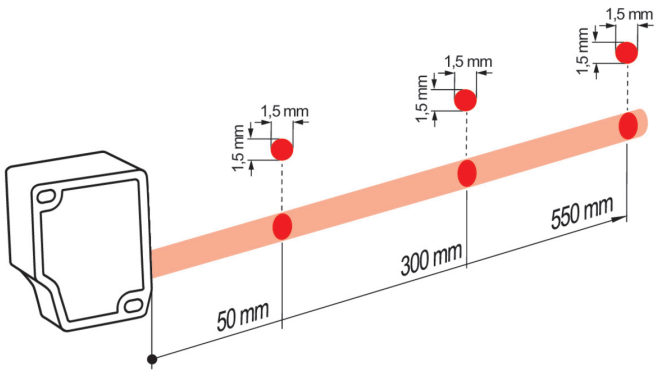
Connection diagram



Pin assignment



Beam characteristic (typically)



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