

Overview

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



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	Line

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

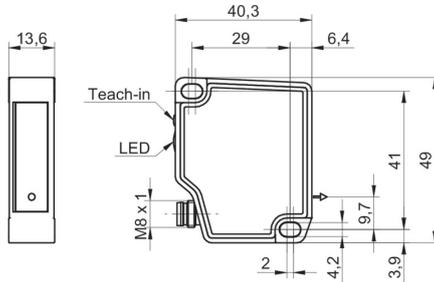
Mechanical data

Width / diameter	13.6 mm
Height / length	49 mm
Depth	40.3 mm
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

Dimension drawing



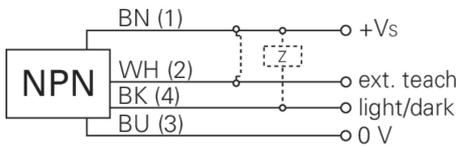
Laser warning



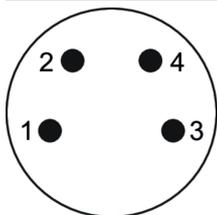
LASER RADIATION
DO NOT STARE INTO BEAM
Wavelength: 640...670nm
IEC 60825-1, Ed. 3, 2014
CLASS 2 LASER PRODUCT

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)

