

O300.GL-PV1T.72N

Diffuse sensors with background suppression - miniature

Article number: 11171748

Overview

- background suppression
- 30 ... 250 mm
- pulsed red laser diode
- PNP complementary
- qTeach
- connector M8 4 pin
- 10 ... 60 °C
- IP 67



Picture similar



Technical data

General data

Type	Background suppression
Light source	Pulsed red laser diode
Sensing distance Tw	30 ... 250 mm
Sensing range Tb	15 ... 250 mm
Repeat accuracy	< 0,1 mm at laser focus
Power on indication	LED green
Light indicator	LED yellow
Sensing distance adjustment	qTeach
Laser class	1
Distance to focus	80 mm
Wave length	656 nm
Suppression of reciprocal influence	Yes
Alignment optical axis	< 2°

Electrical data

Response time / release time	< 0,25 ms
Voltage supply range +Vs	11 ... 30 VDC
Current consumption max. (no load)	30 mA

Electrical data

Current consumption typ.	25 mA
Voltage drop Vd	< 2,5 VDC
Output function	Light / dark operate
Output circuit	PNP complementary
Output current	< 100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Width / diameter	12,9 mm
Height / length	32,3 mm
Depth	23 mm
Type	Rectangular
Housing material	Plastic (ASA, PMMA)
Front (optics)	PMMA
Connection types	Connector M8 4 pin

Ambient conditions

Operating temperature	-10 ... +60 °C
Protection class	IP 67

Remarks

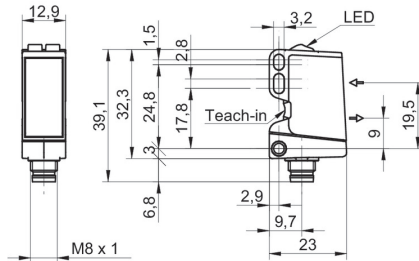
- qTeach

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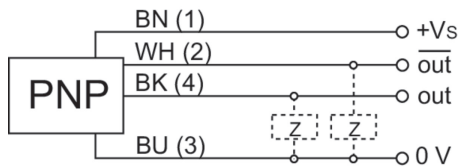
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Dimension drawing



Connection diagram

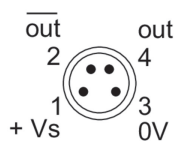


Laser warning

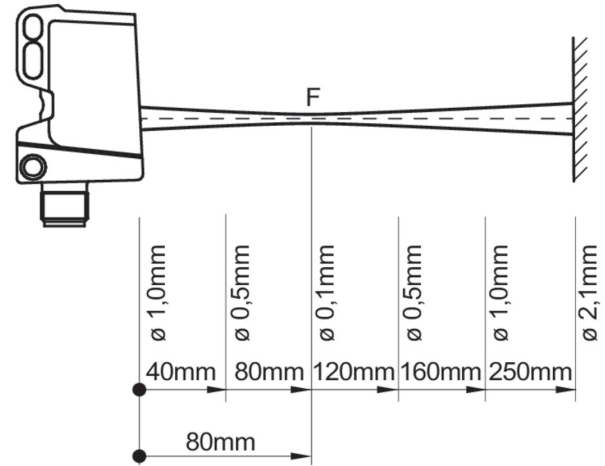
**CLASS 1 LASER
PRODUCT**

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

Pin assignment



Beam characteristic (typically)



Sensing distance diagram

