

O300.RL-PV1T.72N

Retro-reflective sensors - miniature

Article number: 11172803

Overview

- retro-reflective sensor
- 5 m
- pulsed red laser diode
- PNP complementary
- qTeach
- connector M8 4 pin
- -10 ... 60 °C
- IP 67



Picture similar



Technical data

General data

| | |
|-------------------------------------|-------------------------|
| Type | Retro-reflective sensor |
| Light source | Pulsed red laser diode |
| Actual range Sb | 5 m |
| Nominal range Sn | 6 m |
| Repeat accuracy | < 0,2 mm at 500 mm |
| Polarization filter | Yes |
| Light indicator | LED yellow |
| Power on indication | LED green |
| Sensitivity adjustment | qTeach |
| Laser class | 1 |
| Distance to focus | Parallel beam |
| Wave length | 656 nm |
| Suppression of reciprocal influence | Yes |
| Alignment optical axis | < 2° |

Electrical data

| | |
|------------------------------------|---------------|
| Response time / release time | < 0,1 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

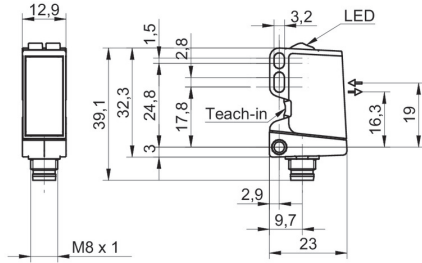
- qTeach

O300.RL-PV1T.72N

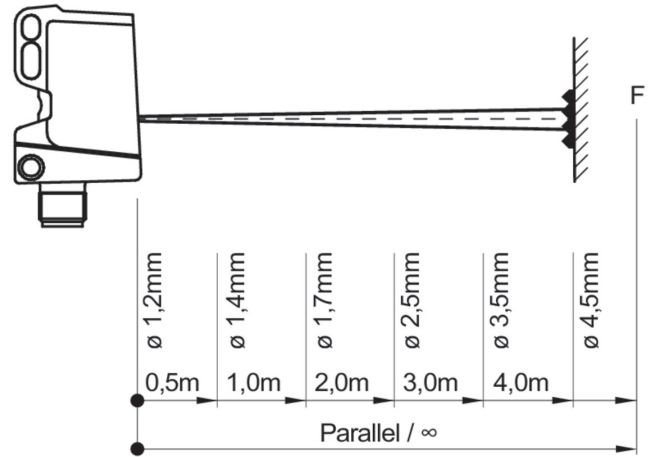
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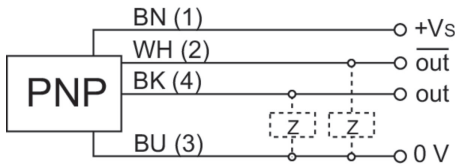
Dimension drawing



Beam characteristic (typically)



Connection diagram

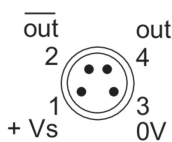


Laser warning

**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



Excess gain curve

