# O200.RL.T-PV1T.72CV/FIN1_H006

Article number: 11231195

## overview

- Extended functional reserve capacities for maximum reliability
- Long-term stable detection of transparent objects thanks to compensation of environmental influences
- Parallel laser beam for uniform detection over the measuring range
- qTeach - tamper-proof, simple teach-in with ferromagnetic tool
- Quick mounting by means of M3 threaded bushes made of stainless steel

## Technical data

### general data

| | |
|---|---|
| type | retro-reflective sensor |
| version | transparency object detection |
| light source | pulsed red laser diode |
| actual range Sb | 0,8 m |
| nominal range Sn | 1,2 m |
| polarization filter | yes |
| minimal signal attenuation | 10 % |
| alignment / soiled lens indicator | flashing output indicator |
| output indicator | LED yellow |
| power on indication | LED green |
| sensitivity adjustment | qTeach |
| laser class | 1 |
| distance to focus | parallel beam |
| wave length | 680 nm |
| suppression of reciprocal influence | yes |
| alignment optical axis | < 1,5° |

### electrical data

| | |
|---|---|
| response time / release time | < 0,25 ms |
| jitter | < 0,06 ms |
| voltage supply range +Vs | 10 … 30 VDC |

### electrical data

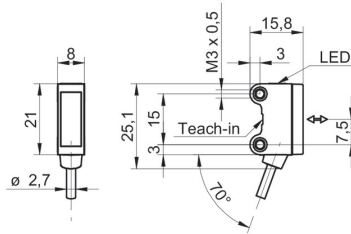| | |
|---|---|
| current consumption max. (no load) | 20 mA (@ 10 VDC) |
| current consumption typ. | 10 mA (@ 24 VDC) |
| voltage drop Vd | < 2 VDC |
| output function | light / dark operate |
| output circuit | PNP complementary |
| output current | < 50 mA |
| short circuit protection | yes |
| reverse polarity protection | yes |

### mechanical data

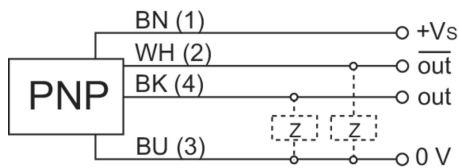| | |
|---|---|
| width / diameter | 8 mm |
| height / length | 25,1 mm |
| depth | 15,8 mm |
| type | rectangular |
| mechanical mounting | threaded sleeves M3 (stainless steel) |
| housing material | plastic (ASA, PMMA) |
| front (optics) | PMMA |
| connection types | cable 4 pin, 2 m |
| cable characteristics | PVC / PVC 4 x 0,08 mm² |

### ambient conditions

| | |
|---|---|
| operating temperature | -20 … +50 °C |
| protection class | IP 67 |

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## dimension drawing



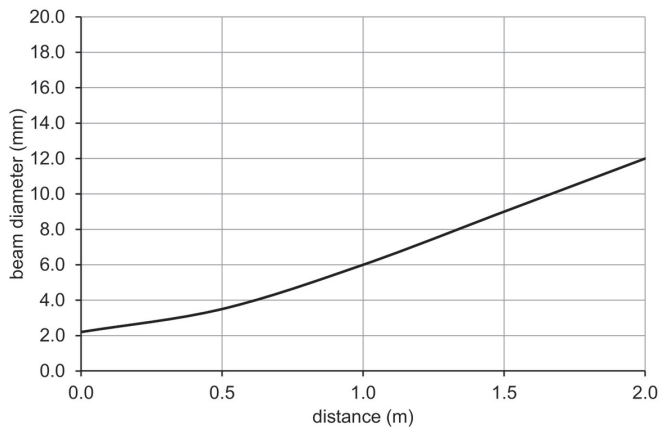## connection diagram



## laser warning

**CLASS 1 LASER PRODUCT**

IEC 60825-1/2014
Complies with 21 CFR 1040.10 and 1040.11
except for deviations pursuant to laser
notice No. 50, dated June 24, 2007

## beam characteristic (typically)



## excess gain curve



FTDF 025U025
FTDF 040U250
FTDR 020U020
FTDR 048U048

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