

OHDK 14N5101

Diffuse sensors with background suppression - standard

Article number: 11001252

Overview

- background suppression
- 20 ... 350 mm
- pulsed red laser diode
- NPN
- mechanical, 9 turn
- cable 4 pin, 2 m
- -10 ... 50 °C
- IP 67



Picture similar



Technical data

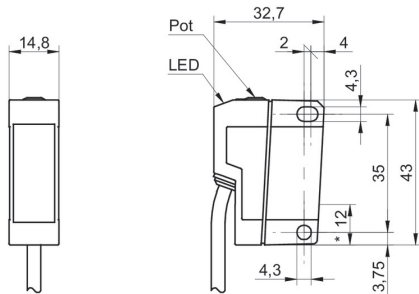
| General data | | Electrical data | |
|------------------------------------|-------------------------|-----------------------------|----------------------|
| Type | Background suppression | Current consumption typ. | 25 mA |
| Light source | Pulsed red laser diode | Voltage drop Vd | < 2,2 VDC |
| Sensing distance Tw | 20 ... 350 mm | Output function | Light / dark operate |
| Sensing range Tb (at Tw max.) | 20 ... 350 mm | Output circuit | NPN |
| Sensing range Tb (at Tw min.) | 5 ... 20 mm | Output current | < 100 mA |
| Repeat accuracy | < 0,2 mm at laser focus | Short circuit protection | Yes |
| Power on indication | LED green | Reverse polarity protection | Yes |
| Light indicator | LED yellow | Mechanical data | |
| Sensing distance adjustment | Mechanical, 9 turn | Width / diameter | 14,8 mm |
| Laser class | 2 | Height / length | 43 mm |
| Distance to focus | 115 mm | Depth | 32,7 mm |
| Wave length | 650 nm | Type | Rectangular |
| Electrical data | | Housing material | Plastic (ASA, MABS) |
| Response time / release time | < 0,5 ms | Front (optics) | PMMA |
| Voltage supply range +Vs | 10 ... 30 VDC | Connection types | Cable 4 pin, 2 m |
| Current consumption max. (no load) | 35 mA | Ambient conditions | |
| | | Operating temperature | -10 ... +50 °C |
| | | Protection class | IP 67 |

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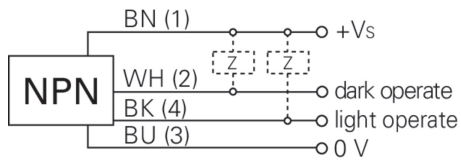
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Dimension drawing



Connection diagram



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

Beam characteristic (typically)

