

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

Type	Background suppression
Light source	Pulsed red laser diode
Sensing distance Tw	20 ... 350 mm
Sensing range Tb (at Tw max.)	20 ... 350 mm
Sensing range Tb (at Tw min.)	5 ... 20 mm
Repeat accuracy	< 0.2 mm at laser focus
Power on indication	LED green
Light indicator	LED yellow
Sensing distance adjustment	Mechanical, 9 turn
Laser class	2
Distance to focus	115 mm
Wave length	650 nm

Electrical data

Response time / release time	< 0.5 ms
Voltage supply range +Vs	10 ... 30 VDC
Current consumption max. (no load)	35 mA

Electrical data

Current consumption typ.	25 mA
Voltage drop Vd	< 2.2 VDC
Output function	Light / dark operate
Output circuit	NPN
Output current	< 100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Width / diameter	14.8 mm
Height / length	43 mm
Depth	32.7 mm
Type	Rectangular
Housing material	Plastic (ASA, MABS)
Front (optics)	PMMA
Connection types	Cable 4 pin, 2 m

Ambient conditions

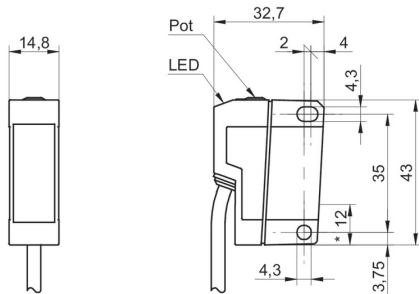
Protection class	IP 67
Operating temperature	-10 ... +50 °C

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Dimension drawing



- * emitter axis

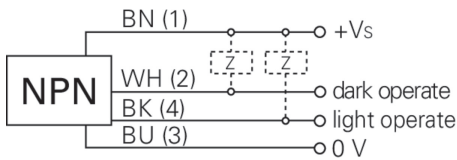
Laser warning



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



Beam characteristic (typically)

