

OHDM 16N5001

Diffuse sensors with background suppression - standard

Article number: 10119524

Overview

- background suppression
- 25 ... 300 mm
- pulsed red laser diode
- NPN
- mechanical, 8 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 T_w	25 ... 300 mm
Sensing range T_b (at T_w max.)	40 ... 300 mm
Sensing range T_b (at T_w min.)	5 ... 25 mm
Repeat accuracy	< 0.1 mm at laser focus
Output indicator	LED yellow
Sensing distance adjustment	Mechanical, 8 turn
Laser class	2
Distance to focus	80 mm
Wave length	650 nm
Suppression of reciprocal influence	Yes

Electrical data

Response time / release time	< 0.6 ms
Voltage supply range +Vs	10 ... 30 VDC

Electrical data

Current consumption max. (no load)	35 mA
Current consumption typ.	25 mA
Voltage drop V_d	< 2 VDC
Output function	Light / dark operate
Output circuit	NPN
Output current	< 200 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Width / diameter	15.4 mm
Height / length	50 mm
Depth	50 mm
Type	Rectangular
Housing material	Die-cast zinc
Front (optics)	Glass
Connection types	Cable 4 pin, 2 m

Ambient conditions

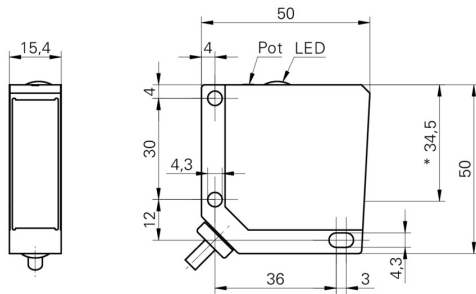
Protection class	IP 67
Operating temperature	-10 ... +50 °C

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Dimension drawing



- * emitter axis

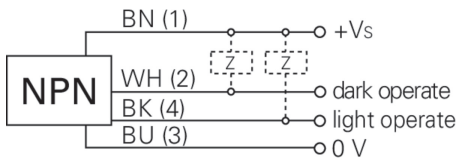
Laser warning



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)

