

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

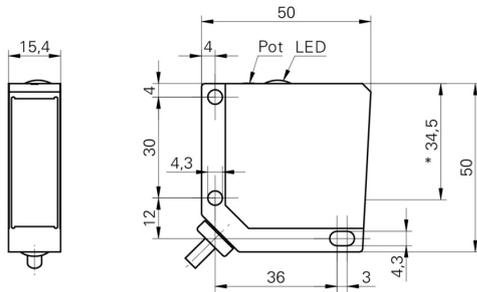
General data		Electrical data	
Type	Background suppression	Current consumption max. (no load)	35 mA
Light source	Pulsed red laser diode	Current consumption typ.	25 mA
Sensing distance T_w	25 ... 300 mm	Voltage drop V_d	< 2 VDC
Sensing range T_b (at T_w max.)	40 ... 300 mm	Output function	Light / dark operate
Sensing range T_b (at T_w min.)	5 ... 25 mm	Output circuit	NPN
Repeat accuracy	< 0.1 mm at laser focus	Output current	< 200 mA
Output indicator	LED yellow	Short circuit protection	Yes
Sensing distance adjustment	Mechanical, 8 turn	Reverse polarity protection	Yes
Laser class	2	Mechanical data	
Distance to focus	80 mm	Width / diameter	15.4 mm
Wave length	650 nm	Height / length	50 mm
Suppression of reciprocal influence	Yes	Depth	50 mm
Electrical data		Type	Rectangular
Response time / release time	< 0.6 ms	Housing material	Die-cast zinc
Voltage supply range $+V_s$	10 ... 30 VDC	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

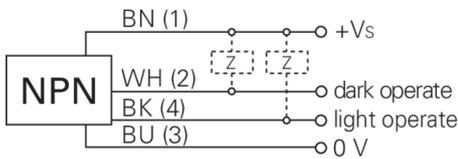
Laser warning



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)

