

OHDK 14P5101/S14

Diffuse sensors with background suppression - standard

Article number: 11001256

Overview

- background suppression
- 20 ... 350 mm
- pulsed red laser diode
- PNP
- mechanical, 9 turn
- connector M12 4 pin
- -10 ... 50 °C
- IP 67



Picture similar



Technical data

General data

Type	Background suppression
Light source	Pulsed red laser diode
Sensing distance T_w	20 ... 350 mm
Sensing range T_b (at T_w max.)	20 ... 350 mm
Sensing range T_b (at T_w 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 V_d	< 2.2 VDC
Output function	Light / dark operate
Output circuit	PNP
Output current	< 100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes

Mechanical data

Width / diameter	14.8 mm
Height / length	43 mm
Depth	31 mm
Type	Rectangular
Housing material	Plastic (ASA, MABS)
Front (optics)	PMMA
Connection types	Connector M12 4 pin

Ambient conditions

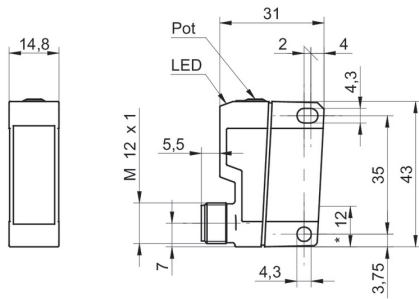
Protection class	IP 67
Operating temperature	-10 ... +50 °C

OHDK 14P5101/S14

Diffuse sensors with background suppression - standard

Article number: 11001256

Dimension drawing



- * emitter axis

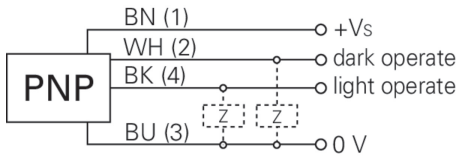
Laser warning



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)

