

OHDK 10P5150/S35A

Diffuse sensors with background suppression - miniature

Article number: 10164118

Overview

- background suppression
- 22 ... 130 mm
- pulsed red laser diode
- PNP
- mechanical, 5 turn
- connector M8 4 pin
- 10 ... 50 °C
- IP 67



Picture similar



Technical data

General data

Type	Background suppression
Version	Line beam
Light source	Pulsed red laser diode
Sensing distance Tw	22 ... 130 mm
Sensing range Tb (at Tw max.)	3 ... 130 mm
Sensing range Tb (at Tw min.)	3 ... 22 mm
Repeat accuracy	< 0.2 mm at laser focus
Power on indication	LED green
Light indicator	LED yellow
Sensing distance adjustment	Mechanical, 5 turn
Laser class	1
Distance to focus	40 mm
Wave length	650 nm
Suppression of reciprocal influence	Yes

Electrical data

Response time / release time	< 0.25 ms
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Electrical data

Voltage supply range +Vs	11 ... 30 VDC
Current consumption max. (no load)	30 mA
Current consumption typ.	25 mA
Voltage drop Vd	< 1.8 VDC
Output function	Light / dark operate
Output circuit	PNP
Output current	< 100 mA
Short circuit protection	Yes
Reverse polarity protection	Yes, supply only

Mechanical data

Width / diameter	10.4 mm
Height / length	27 mm
Depth	16.3 mm
Type	Rectangular
Housing material	Plastic (ASA)
Front (optics)	PMMA
Connection types	Connector M8 4 pin

Ambient conditions

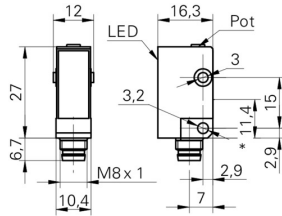
Protection class	IP 67
Operating temperature	-10 ... +50 °C

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Dimension drawing



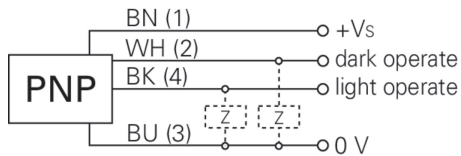
▪ * emitter axis

Laser warning

**CLASS 1 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)

