

OPDK 14P1903/S14

Retro-reflective sensors - for longer ranges

Article number: 11001304

Overview

- retro-reflective laser sensor
- 4,5 m
- pulsed red laser diode
- PNP
- Teach-in
- connector M12 4 pin
- -10 ... 50 °C
- IP 67



Picture similar



Technical data

General data		Electrical data	
Type	Retro-reflective laser sensor	Current consumption typ.	25 mA
Version	Transparency object detection Single lens optics	Voltage drop Vd	< 2,2 VDC
Light source	Pulsed red laser diode	Output function	Light operate
Actual range Sb	4,5 m	Output circuit	PNP
Nominal range Sn	5,2 m	Output current	< 100 mA
Repeat accuracy	< 0,1 mm at laser focus	Teach value stored after power-off	Non volatile
Polarization filter	Yes	Short circuit protection	Yes
Light indicator	LED yellow	Reverse polarity protection	Yes
Power on indication	LED green	Mechanical data	
Sensitivity adjustment	Teach-in	Width / diameter	14,8 mm
Laser class	1	Height / length	43 mm
Distance to focus	100 mm	Depth	31 mm
Wave length	650 nm	Type	Rectangular
Electrical data		Housing material	Plastic (ASA, MABS)
Response time / release time	< 0,25 ms	Front (optics)	PMMA
Voltage supply range +Vs	10 ... 30 VDC	Connection types	Connector M12 4 pin
Current consumption max. (no load)	35 mA	Ambient conditions	
		Operating temperature	-10 ... +50 °C
		Protection class	IP 67

Remarks

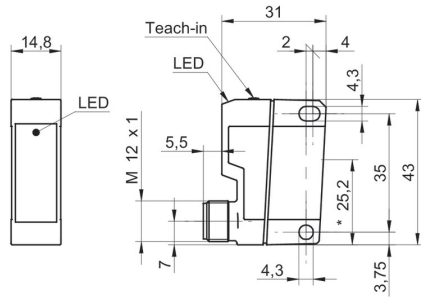
- Sn, Sb: The teach value will be memorized after Power-off

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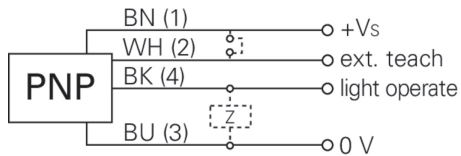
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Dimension drawing



Connection diagram



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

Beam characteristic (typically)

