Retro-reflective sensors

OPDK 14P3903/S35A

Retro-reflective sensors - for longer ranges

Article number: 11001311

Overview

- retro-reflective laser sensor
- 4,5 m
- pulsed red laser diode
- PNP
- Teach-in
- connector M8 4 pin
- -10 … 50 °C
- IP 67

Picture similar

Technical data

General data	
Type	Retro-reflective laser sensor
Version	Transparency object detection Single lens optics
Light source	Pulsed red laser diode
Actual range Sb	4,5 m
Nominal range Sn	5,2 m
Repeat accuracy	< 0,1 mm at laser focus
Polarization filter	Yes
Light indicator	LED yellow
Power on indication	LED green
Sensitivity adjustment	Teach-in
Laser class	1
Distance to focus	100 mm
Wave length	650 nm
Electrical data	
Response time / release time	< 0,25 ms
Voltage supply range +Vs	10 … 30 VDC
Current consumption max. (no load)	35 mA

Electrical data	
Current consumption typ.	25 mA
Voltage drop Vd	< 2,2 VDC
Output function	Dark operate
Output circuit	PNP
Output current	< 100 mA
Teach value stored after power-off	Non volatile
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 M8 4 pin
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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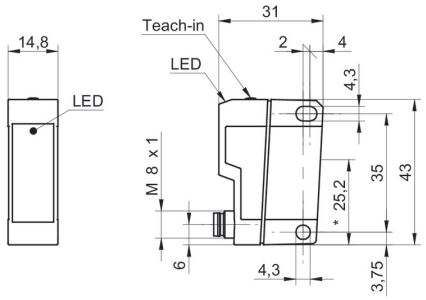
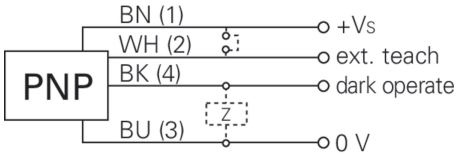
Dimension drawing



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)