

## OZDK 14P1901/S14

Diffuse contrast sensors - standard

Article number: 11001328

### Overview

- diffuse contrast sensor
- 20 ... 300 mm
- pulsed red laser diode
- PNP
- Teach-in
- connector M12 4 pin
- -10 ... 50 °C
- IP 67



Picture similar



### Technical data

#### General data

Type	Diffuse contrast sensor
Light source	Pulsed red laser diode
Sensing distance Tw	20 ... 300 mm
Optimum operating distance	40 ... 60 mm
Repeat accuracy	< 0.2 mm at laser focus
Power on indication	LED green
Alignment / soiled lens indicator	Flashing light indicator
Light indicator	LED yellow
Sensitivity adjustment	Teach-in
Laser class	2
Distance to focus	115 mm
Wave length	650 nm

#### Electrical data

Response time / release time	< 0.15 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	Light 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

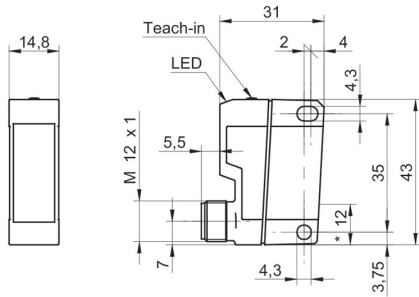
Protection class	IP 67
Operating temperature	-10 ... +50 °C

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## Dimension drawing



- \* emitter axis

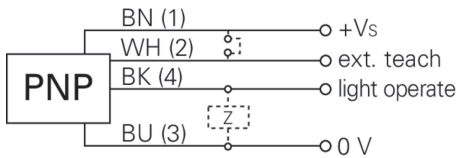
## Laser warning



**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)

