

OZDK 10P5150

Diffuse contrast sensors - miniature

Article number: 10163204

Overview

- diffuse contrast sensor
- 3 ... 150 mm
- pulsed red laser diode
- PNP
- potentiometer, 5 turn
- cable 4 pin, 2 m
- -10 ... 50 °C
- IP 65



Picture similar



Technical data

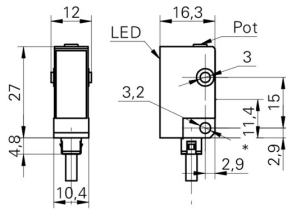
General data		Electrical data	
Type	Diffuse contrast sensor	Current consumption typ.	40 mA
Version	Line beam	Voltage drop Vd	< 1.8 VDC
Light source	Pulsed red laser diode	Output function	Light / dark operate
Sensing distance Tw	3 ... 150 mm	Output circuit	PNP
Optimum operating distance	35 ... 45 mm	Output current	< 100 mA
Repeat accuracy	< 0.2 mm at laser focus	Short circuit protection	Yes
Power on indication	LED green	Reverse polarity protection	Yes
Light indicator	LED yellow	Mechanical data	
Sensitivity adjustment	Potentiometer, 5 turn	Width / diameter	10.4 mm
Laser class	1	Height / length	27 mm
Distance to focus	40 mm	Depth	16.3 mm
Wave length	650 nm	Type	Rectangular
Electrical data		Housing material	Plastic (ASA)
Response time / release time	< 0.05 ms	Front (optics)	PMMA
Voltage supply range +Vs	10 ... 30 VDC	Connection types	Cable 4 pin, 2 m
Current consumption max. (no load)	50 mA	Ambient conditions	
		Protection class	IP 65
		Operating temperature	-10 ... +50 °C

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Dimension drawing



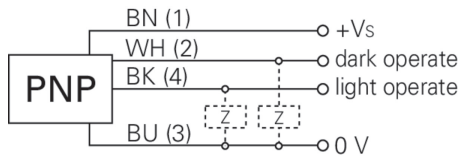
* emitter axis

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)

