

# OZDK 10P5101

Diffuse contrast sensors - miniature

Article number: 10136501

## 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

Type	Diffuse contrast sensor
Light source	Pulsed red laser diode
Sensing distance Tw	3 ... 150 mm
Optimum operating distance	20 ... 40 mm
Detectable remission difference (on grey)	> 8 %
Repeat accuracy	< 0.2 mm at laser focus
Power on indication	LED green
Light indicator	LED yellow
Sensitivity adjustment	Potentiometer, 5 turn
Laser class	2
Distance to focus	40 mm
Wave length	650 nm

### Electrical data

Response time / release time	< 0.05 ms
Voltage supply range +Vs	10 ... 30 VDC
Current consumption max. (no load)	50 mA

### Electrical data

Current consumption typ.	40 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

### 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	Cable 4 pin, 2 m

### Ambient conditions

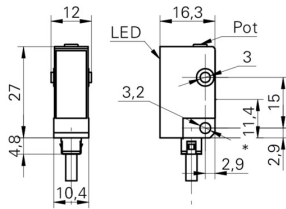
Protection class	IP 65
Operating temperature	-10 ... +50 °C

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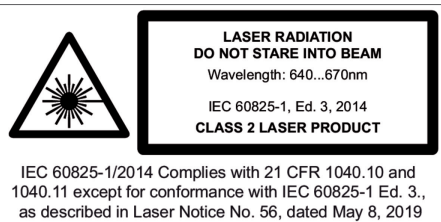
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## Dimension drawing

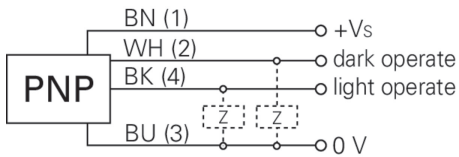


- \* emitter axis

## Laser warning



## Connection diagram



## Beam characteristic (typically)

