Diffuse sensors with intensity difference

OZDM 16N1001/S14

Diffuse contrast sensors - standard

Article number: 10133599

Overview

- diffuse contrast sensor
- < 250 mm
- pulsed red laser diode
- NPN
- potentiometer, 14 turn
- 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	< 250 mm
Optimum operating distance	40 … 80 mm
Detectable remission difference (on grey)	> 8 %
Repeat accuracy	< 0.1 mm at laser focus
Output indicator	LED yellow
Sensitivity adjustment	Potentiometer, 14 turn
Laser class	1
Distance to focus	80 mm
Wave length	650 nm
Electrical data	
Response time / release time	< 0.05 ms
Voltage supply range +Vs	12 … 30 VDC
Current consumption max. (no load)	65 mA

Electrical data	
Current consumption typ.	60 mA
Voltage drop Vd	< 2 VDC
Output function	Light operate
Output circuit	NPN
Output current	< 200 mA
Short circuit protection	Yes
Reverse polarity protection	Yes
Mechanical data	
Width / diameter	15.4 mm
Height / length	50 mm
Depth	50 mm
Type	Rectangular
Housing material	Die-cast zinc
Front (optics)	Glass
Connection types	Connector M12 4 pin
Ambient conditions	
Protection class	IP 67
Operating temperature	-10 … +50 °C

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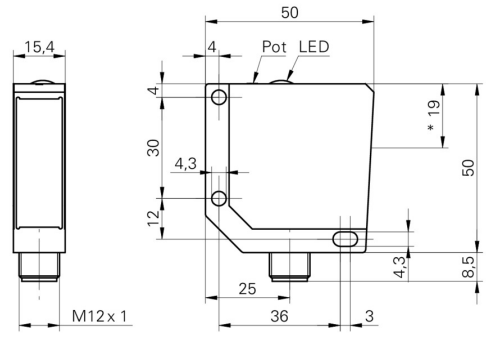
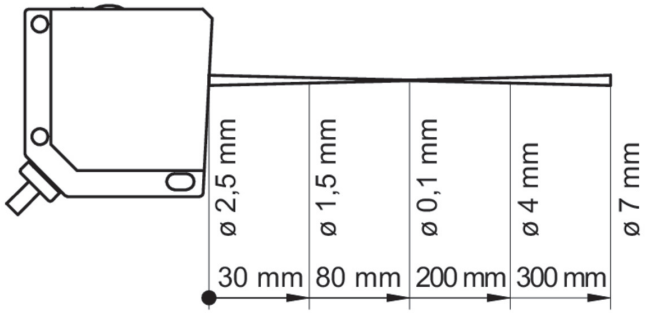
Dimension drawing



- * emitter axis

Beam characteristic (typically)



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