Baumer
Passion for Sensors

Diffuse sensors with background suppression

OHDM 16P5012/S14

Diffuse sensors with background suppression - standard

Article number: 10242042

Overview

- background suppression
- 25 … 300 mm
- pulsed red laser diode
- PNP
- mechanical, 8 turn
- connector M12 4 pin
- -10 … 50 °C
- IP 67

Picture similar

Technical data

General data	
Type	Background suppression
Light source	Pulsed red laser diode
Sensing distance Tw	25 … 300 mm
Sensing range Tb (at Tw max.)	40 … 300 mm
Sensing range Tb (at Tw min.)	5 … 25 mm
Repeat accuracy	< 0.1 mm at laser focus
Output indicator	LED yellow
Sensing distance adjustment	Mechanical, 8 turn
Laser class	2
Distance to focus	60 mm
Wave length	650 nm
Electrical data	
Response time / release time	< 0.1 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 VDC
Output function	Light / dark operate
Output circuit	PNP
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

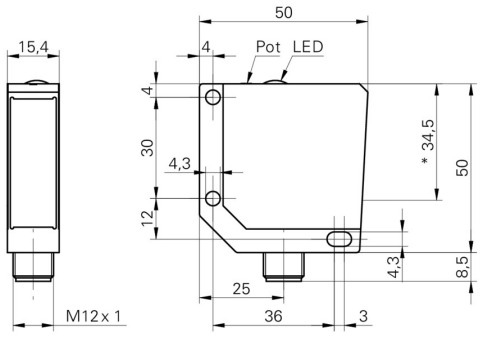
2022-11-10 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.

OHDM 16P5012/S14

Diffuse sensors with background suppression - standard

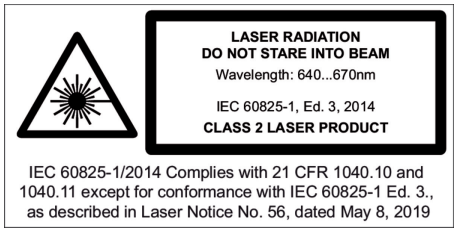
Article number: 10242042

Dimension drawing

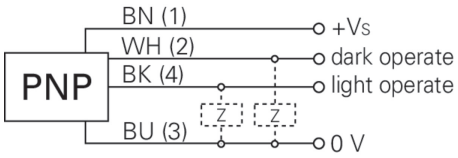


- * emitter axis

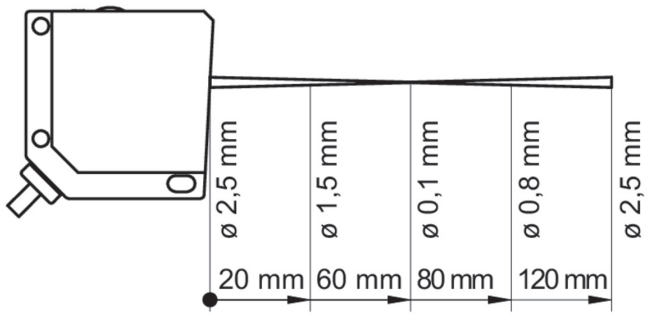
Laser warning



Connection diagram



Beam characteristic (typically)



2022-11-10 The product features and technical data specified do not express or imply any warranty. Technical modifications subject to change.