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Model Number

OBT15-R2-E0-Y264205

Triangulation sensor (BGS) with 2 m fixed cable

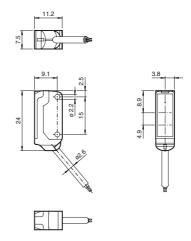
Features

- Ultra-small housing design
- 45° cable outlet for maximum mounting freedom under extremely tight space constraints
- Improvement in machine availability with abrasion-resistant, antistatic glass front
- Extremely small light spot for very high switching point accuracy
- Highly visible light spot, even on dark materials
- Precision object detection, almost irrespective of the color

Product information

The nano sensor has been developed for a broad range of applications. It offers excellent durability and is exceptionally easy to install. The housing is compact and, with its 45° cable outlet, can be installed in the smallest spaces. New functional principles and functionality open up a range of new options. The abrasion-resistant lens allows long operating times close to the moving object.

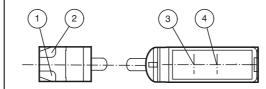
Dimensions



Electrical connection



Indicators/operating means



1	Operating display	green
2	Signal display	yellow
3	Emitter	
4	Receiver	



Technical data		
General specifications		
Detection range		2 15 mm
Reference target		standard white, 100 mm x 100 mm
Light source		LED
Light type		modulated visible red light, 630 nm
Black/White difference (6 %/90 %	6)	< 5 % at 15 mm
Angle deviation		approx. 2 °
Diameter of the light spot		approx. 2 mm at a distance of 15 mm
Angle of divergence		approx. 2 °
Optical face		frontal
Ambient light limit		EN 60947-5-2 : 30000 Lux
Functional safety related param	neters	
MTTF _d		800 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
Operation indicator		LED green: Power on flashing: Short circuit/overload indication
Function indicator		LED yellow ON: lights when object is detected
Electrical specifications		=== yelleli evi ligille ilileli especi le delected
Operating voltage	U_{B}	10 30 V DC , class 2
No-load supply current	I ₀	< 10 mA
	10	N TO THA
Output		NO contact
Switching type		
Signal output		NPN output, short-circuit protected, reverse polarity protect open collector
Switching voltage		max. 30 V DC
Switching current		max. 50 mA, resistive load
Voltage drop	U _d	≤ 1.5 V DC
Switching frequency	f	approx. 800 Hz
Response time		600 μs
Ambient conditions		
Ambient temperature		-25 60 °C (-13 140 °F)
Storage temperature		-30 70 °C (-22 158 °F)
Mechanical specifications		
Housing width		7.5 mm
Housing height		24 mm
Housing depth		11.2 mm
Degree of protection		IP67
Connection		2 m fixed cable
Material		
Housing		PC/ABS and TPU
Optical face		glass
Cable		PUR
Installation		2 x thru-holes 2,2 mm , 2 x M2 allen head screws included w delivery
Mass		approx. 20 g
Cable length		2 m
Compliance with standards and ves	d directi	-
Directive conformity		
EMC Directive 2004/108/EC		EN 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Recognized, Class 2 Power Source
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Accessories

MH-R2-01

Mounting aid for R2 series, Mounting bracket

MH-R2-02

Mounting aid for R2 series, Mounting bracket

MH-R2-03

Mounting aid for R2 series, Mounting bra-

MH-R2-04

Mounting aid for R2 series, Mounting bra-

Other suitable accessories can be found at www.pepperl-fuchs.com

EPPERL+FUCHS

CCC approval

CCC approval / marking not required for products rated ≤36 V

Curves/Diagrams

