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Model Number

OBT15-R2-E2

Triangulation sensor (BGS) with 2 m fixed cable

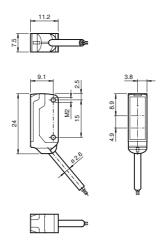
Features

- High-performance miniature photoelectric sensors
- 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.

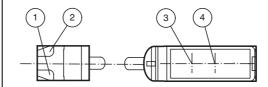
Dimensions



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 %)		< 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 parameters				
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		, ,		
Operating voltage	U_{B}	10 30 V DC , class 2		
No-load supply current	I ₀	< 10 mA		
Output	.0			
Switching type		NO contact		
Signal output		1 PNP output, short-circuit protected, reverse polarity protected,		
Olgridi Gatpat		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		
Conformity				
Product standard		EN 60947-5-2		
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		Fixing screws , 2 x M2 allen head screws included with delivery		
Mass		approx. 20 g		
Cable length		2 m		
Approvals and certificates				
UL approval		cULus Recognized, Class 2 Power Source		

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

MH-R2-04

Mounting aid for R2 series, Mounting bracket

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

FPEPPERL+FUCHS

CCC approval

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

Curves/Diagrams

