

CE

Model Number

OBT30-R2-E2-1T

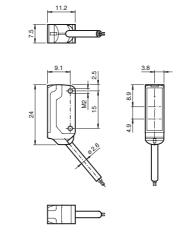
Triangulation sensor (BGE) 2 m fixed cable

Features

- Ultra-small housing design ٠
- 45° cable outlet for maximum ٠ mounting freedom under extremely tight space constraints
- Improvement in machine availability ٠ with abrasion-resistant, antistatic glass front
- Detection of flat objects in front of a ٠ close background
- Highly visible light spot, even on dark materials

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.

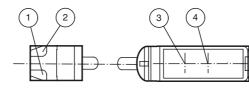


Electrical connection



Dimensions

Indicators/operating means



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

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Technical data

Technical data							
General specifications							
Detection range		0 30 mm					
Reference target Light source Light type Angle deviation Diameter of the light spot Angle of divergence		standard white, 100 mm x 100 mm LED modulated visible red light , 630 nm approx. 2 ° approx. 2 mm at a distance of 30 mm approx. 2 °					
				Optical face		frontal	
				Ambient light limit		EN 60947-5-2 : 30000 Lux	
				Functional safety related para	ameters		
				MTTFd		800 a	
				Mission Time (T _M)		20 a	
Diagnostic Coverage (DC)		0%					
Indicators/operating means							
Operation indicator		LED green, statically lit Power on , short-circuit : LED green flashing (approx. 4 Hz)					
Function indicator		LED yellow ON: sensor detects background					
Electrical specifications							
Operating voltage	UB	10 30 V DC , class 2					
No-load supply current	I0	< 10 mA					
Protection class		III					
Output							
Switching type		NO contact					
Signal output		1 PNP output, short-circuit protected, reverse polarity protected 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		E87056, cULus Recognized, Class 2 Power Source					
CCC approval		CCC approval / marking not required for products rated \leq 36 V					
coo appiorai		coo approvar/ marking not required for products rated ≤00 V					

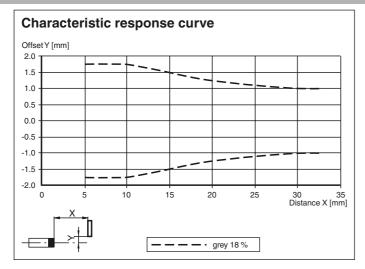
Accessories
MH-R2-01 Mounting aid for R2 series, Mounting bracket
MH-R2-02 Mounting aid for R2 series, Mounting bracket
MH-R2-03 Mounting aid for R2 series, Mounting bracket
MH-R2-04 Mounting aid for R2 series, Mounting bracket
Other suitable accessories can be found at www.pepperl-fuchs.com

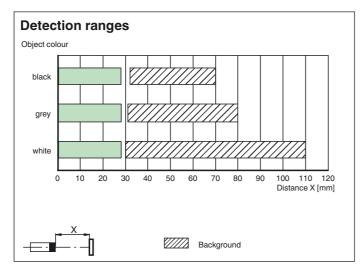
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Curves/Diagrams





Release date: 2019-10-30 02:14 Date of issue: 2019-10-30 225928_eng.xml

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com