

GNIIS CE

Model Number

OBT30-R3-E0-1T

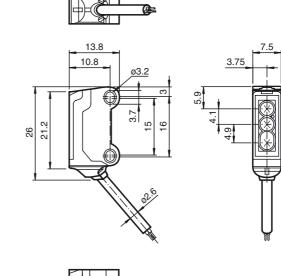
Triangulation sensor (BGE) 2 m fixed cable

Features

- 45° cable outlet for maximum moun-٠ ting freedom under extremely tight space constraints
- Improvement in machine availability • 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.

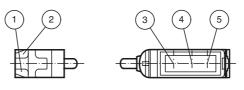


Electrical connection

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Dimensions

Indicators/operating means



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

Pepperl+Fuchs Group

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Other suitable accessories can be found at

Technical data

Technical data					
General specifications					
Detection range		0 30 mm			
Reference target		standard white, 100 mm x 100 mm			
Light source		LED			
Light type		modulated visible red light , 630 nm			
Angle deviation		approx. 2 °			
Diameter of the light spot		approx. 2 mm at a distance of 30 mm			
Angle of divergence		approx. 2 °			
Optical face		frontal			
Ambient light limit		EN 60947-5-2 : 30000 Lux			
Functional safety related parameters					
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 flas-			
Function indicator		hing (approx. 4 Hz) LED yellow ON: sensor detects background			
		LED yonow Ore sensor delects background			
Electrical specifications					
Operating voltage	U _B	10 30 V DC , class 2 < 10 mA			
No-load supply current Protection class	I ₀				
Output		NO contract			
Switching type		NO contact			
Signal output		1 NPN 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			
Directive conformity					
Electromagnetic compatibility					
Directive 2014/30/EU		EN 60947-5-2:2007 EN 60947-5-2/A1:2012			
Ambient conditions					
Ambient temperature		-25 60 °C (-13 140 °F)			
Storage temperature		-30 70 °C (-22 158 °F)			
Mechanical specifications					
Housing width		7.4 mm			
Housing height		26 mm			
Housing depth		13.8 mm			
Degree of protection		IP67			
Connection		2 m fixed cable			
Material					
Housing		PC/ABS and TPU			
Optical face		glass			
Cable		PUR			
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 ≤36 V			

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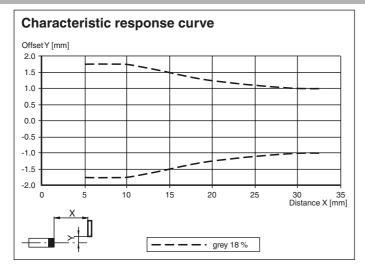
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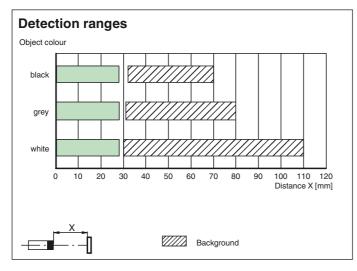
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Curves/Diagrams





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Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0001 www.pepperl-fuchs.com

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