



GNIIS CE

Model Number

OBT30-R3-E0-1T

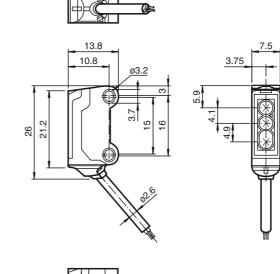
Triangulation sensor (BGE) 2 m fixed cable

Features

- 45° cable outlet for maximum ٠ mounting 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.



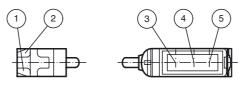


Electrical connection



Dimensions

Indicators/operating means



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

Pepperl+Fuchs Group www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com ⁵ PEPPERL+FUCHS 1

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 param	eters			
MTTF _d		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 I ₀		< 10 mA		
Protection class		III		
Output				
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	Ud	≤ 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		26 mm		
Housing depth		13.8 mm		
Degree of protection		IP67		
Connection		2 m fixed cable		
Material		DC/ABC and TDU		
Housing		PC/ABS and TPU		
Optical face		glass		
Cable Mass		PUR		
		approx. 20 g 2 m		
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		
Curves/Diagrams				
Characteristic response curve				

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



10

5

Pepperl+Fuchs Group USA: +1 330 486 000

Offset Y [mm] 2.0 1.5 1.0 0.5 -0.0 -1.5 -1.0 -1.5 0 0

www.pepperl-fuchs.com

USA: +1 330 486 0001 Ge fa-info@us.pepperl-fuchs.com fa-i

— — — • grey 18 %

20

25

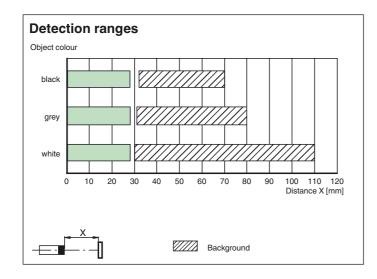
15

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

30 35 Distance X [mm]

> Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

EPPPERL+FUCHS



Pepperl+Fuchs Group www.pepperl-fuchs.com

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com