



GNIIS CE

Model Number

OBT50-R3-E2

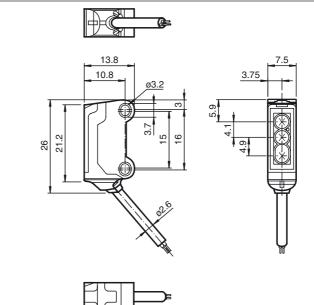
Triangulation sensor (BGS) with 2 m fixed cable

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
- Highly visible light spot, even on dark ٠ materials
- Precision object detection, almost irrespective of the color
- Extremely long detection range paves the way for new applications

Product information

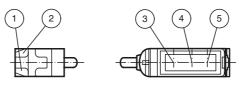
The nano sensor has been developed for a broad range of applications. It offers excellent durability and is exceptionally easy to install. The housing is compact and, with its 45° cable outlet, can be installed in the smallest spaces. New functional principles and functionality open up a range of new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



Electrical connection



Indicators/operating means



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

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Technical data

General specifications 3 50 mm Detection range 3 50 mm Reference target standard white, 100 mm x 100 mm Light source LED Light source LED Black/White difference (6 %/90 %) < 15 % at 50 mm Angle deviation approx. 35 mm at a distance of 50 mm Angle deviation approx. 35 mm at a distance of 50 mm Angle of divergence approx. 32 ° Optical face frontal Ambient light limit EN 60947-5-2 : 30000 Lux Functional safety related parameters mm Mitsion Time (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means LED green, statically it Power on , short-circuit : LED green files-finity (approx. 4 Hz) Function indicator LED yellow ON: lights when object is detected Electrical specifications mm Operating voltage U _B On30 V DC , class 2 No-load supply current l ₀ No-load supply current l ₀ 10 mA Signal output 1 PNP output, short-circuit protected, reverse polarity protected, oper odlector <	Technical data		
Reference target standard white, 100 mm x 100 mm Light type modulated visible red light , 630 nm Black/White difference (6 %/90 %) <15 % at 50 mm Angle deviation approx. 3.5 mm at a distance of 50 mm Angle deviation approx. 2.° Diameter of the light spot approx. 2.° Optical face frontal Ambient light limit EN 60947-5-2: 30000 Lux Functional safety related parameters MTTFd MTTFd 800 a Mission Time (T _M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means UED green, statically lit Power on , short-circuit : LED green flass- hing (approx. 4 Hz) Portating voltage Ug 10 30 V DC , class 2 No-load supply current Ig 10 30 V DC, class 2 No-load supply current Ig 10 30 V DC Signal output 1 PNP output, short-circuit protected, reverse polarity protected, reverse polarity protected, switching type NO contact Signal output 1 PNP output, short-circuit protected, reverse polarity protected, reverse polarity protected, reverse polarity protected, switching current max. 50 v DC Souting trequency f approx. 800 H	General specifications		
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Black/White difference (6 %/90 %) < 15 % at 50 mm	Light source		LED
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Optical face glass Cable PUR Mass approx. 20 g Cable length 2 m Approvals and certificates E87056, cULus Recognized, Class 2 Power Source	Housing		PC/ABS and TPU
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UL approval E87056 , cULus Recognized, Class 2 Power Source	Cable length		
CCC approval CCC approval / marking not required for products rated ≤36 V	UL approval		
	CCC approval		CCC approval / marking not required for products rated <36 V

	OBT50-R3-E2	
ī	Accessories	
	MH-R3-01 Mounting aid for sensors from the R3 se- ries, mounting bracket	
	MH-R3-02 Mounting aid for sensors from the R3 se- ries, mounting bracket	
	MH-R3-03 Mounting aid for sensors from the R3 se- ries, mounting bracket	
	MH-R3-04 Mounting aid for sensors from the R3 se- ries, mounting bracket	
IS-	Other suitable accessories can be found at www.pepperl-fuchs.com	
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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

Pepperl+Fuchs Group www.pepperl-fuchs.com

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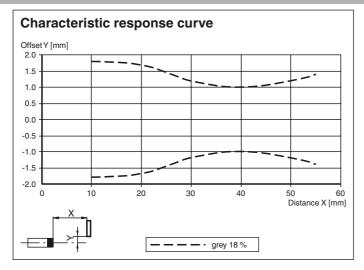
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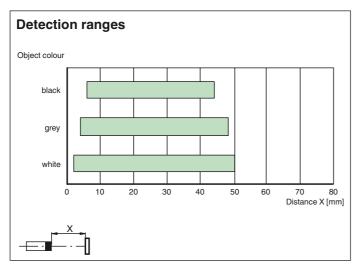
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Curves/Diagrams





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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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