

Triangulation sensor (BGS) OBT30-R2-E0-0,4M-V3-P



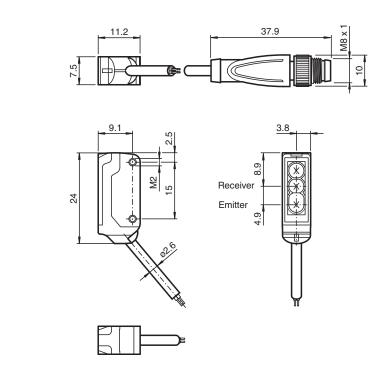
- Ultra-small housing design
- 45° cable outlet for maximum mounting freedom under extremely tight space constraints
- Highly visible light spot, even on dark materials
- Precision object detection, almost irrespective of the color

Triangulation sensor with background suppression for standard applications, miniature design, 30 mm detection range, red light, light on, NPN output, 400 mm fixed cable with plug M8, 3-pin

Function

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.

Dimensions



Technical Data

General specifications	
Detection range	1 30 mm
Reference target	standard white, 100 mm x 100 mm
Light source	LED
Light type	modulated visible red light , 630 nm

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



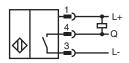
Technical Data

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 I₀ <10 mA Protection class III Output No contact / light-on Switching type No Contact / light-on Switching voltage I NPN output, short-circuit protected, reverse polarity protected, open collector Switching voltage max. 30 V DC max. 30 V DC Switching current Imax. 50 mA, resistive load max. 50 mA, resistive load Voltage drop Ud ≤ 1.5 V DC Switching frequency f approx. 800 Hz Response time 600 µs Product standard EN 60947-5-2 EN 60947-5-2	Technical Data		
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InstallationFixing screws , 2 x M2 allen head screws included with deliveryMassapprox. 20 g	Optical face		PC
Mass approx. 20 g	Cable		PUR
	Installation		Fixing screws , 2 x M2 allen head screws included with delivery
Cable length 400 mm			approx. 20 g
	Cable length		400 mm

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Connection



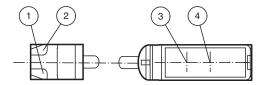
Connection Assignment



Wire colors in accordance with EN 60947-5-2

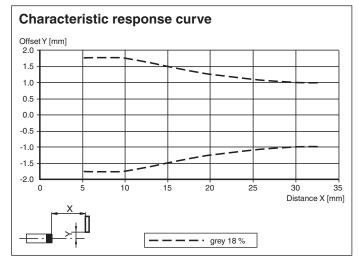
1	BN	(brown)
3	BU	(blue)
4	BK	(black)

Assembly



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

Characteristic Curve



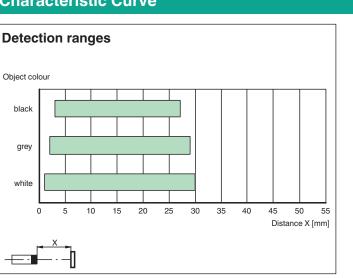
Release date: 2023-03-28 Date of issue: 2023-03-28 Filename: 70141878_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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

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Characteristic Curve



Accessories

	MH-R2-01	Mounting aid for R2 series, Mounting bracket
T	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
6/	V3-WM-2M-PUR	Female cordset single-ended M8 angled A-coded, 3-pin, PUR cable grey

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