Dimensions



CE

Model Number

OBR1000-R2-E2-0,2M-V31

Retroreflective sensor with polarization filter

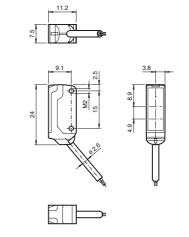
with fixed cable and 4-pin, M8 connector

Features

- · Ultra-small housing design
- 45° cable outlet for maximum mounting freedom under extremely tight space constraints
- · Improvement in machine availability with abrasion-resistant, antistatic glass front
- Integrated polarization filter allows the ٠ detection of reflective objects
- Extremely long detection range paves the way for new applications

Product information

The R3 series 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.



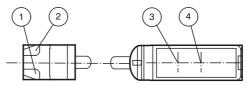
Electrical connection



Pinout



Indicators/operating means



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

Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com

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



Technical	data

	0 1 m	
	40 1000 mm	
	1.4 m	
	H40 reflector	
	LED	
	modulated visible red light , 630 nm	
	yes	
	approx. 2 °	
	approx. 60 mm at a distance of 800 mm	
	approx. 2 °	
	frontal	
	EN 60947-5-2 : 30000 Lux	
neters		
	800 a	
	20 a	
	0 %	
	LED green, statically lit Power on , short-circuit : LED green fl hing (approx. 4 Hz)	
	LED yellow: lights up when receiving the light beam ; flashes when falling short of the stability control; OFF when light beam interrupted	
UB	10 30 V DC , class 2	
I ₀	< 10 mA	
	Test of switching function at 0 V	
	NO contact / dark on	
	1 PNP output, short-circuit protected, reverse polarity protect open collector	
	max. 30 V DC	
	max. 50 mA	
Ud	≤ 1.5 V DC	
f	approx. 800 Hz	
	600 µs	
	-25 60 °C (-13 140 °F)	
	-30 70 °C (-22 158 °F)	
	IP67	
	200 mm fixed cable with 4-pin, M8x1 connector	
	PC/ABS and TPU	
	glass	
	PUR	
	Fixing screws, 2 x M2 allen head screws included with delive	
	approx. 20 g	
	200 mm	
d direct	I-	
	EN 60947-5-2:2007	
	cULus Recognized, Class 2 Power Source	
	U _B I ₀	

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

V31-WM-2M-PUR Female cordset, M8, 4-pin, PUR cable

V31-GM-2M-PUR Female cordset, M8, 4-pin, PUR cable

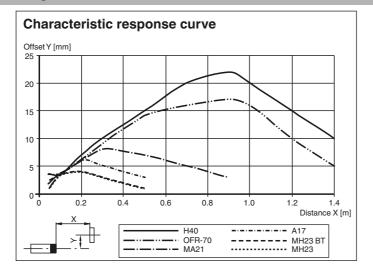
Other suitable accessories can be found at www.pepperl-fuchs.com

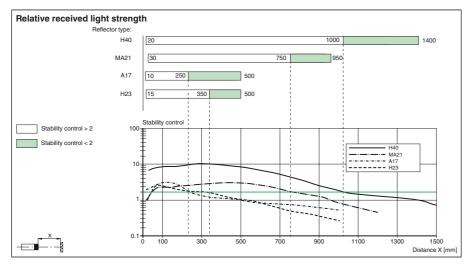
Germany: +49 621 776 4411 fa-info@de.pepperl-fuchs.com



2

Curves/Diagrams





Release date: 2017-03-14 11:22 Date of issue: 2017-03-14 225912_eng.xml

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

fa-info@us.pepperl-fuchs.com

