OBR1000-R3-E2-0,2M-V31

Dimensions



GNIIS CE

Model Number

OBR1000-R3-E2-0,2M-V31

Retroreflective sensor with polarization filter

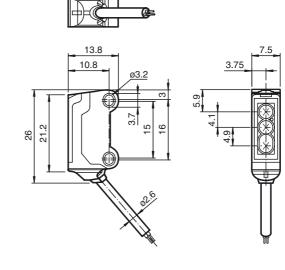
with fixed cable and 4-pin, M8 connector

Features

- 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 detection of reflective objects
- Extremely long detection range paves ٠ 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



Pinout

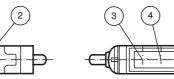
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in accordance with EN 60947-5-2
   BN
  BN
BU
BK
               (brown)
(white)
(blue)
(black)
```

3

Indicators/operating means



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

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Mounting aid for sensors from the R3

Mounting aid for sensors from the R3

Accessories MH-R3-01

MH-R3-02

series, mounting bracket

Technical data

Technical data			
General specifications			
Effective detection range		0 1 m	
Reflector distance		40 1000 mm	
Threshold detection range		1.4 m	
Reference target		H40 reflector	
Light source		LED	
Light type		modulated visible red light , 630 nm	
Polarization filter		yes	
Angle deviation		approx. 2 °	
Diameter of the light spot		approx. 60 mm at a distance of 800 mm	
Angle of divergence		approx. 2 °	
Optical face		frontal	
Ambient light limit		EN 60947-5-2 : 30000 Lux	
Functional safety related para	ameters		
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: lights up when receiving the light beam ; flashes when falling short of the stability control; OFF when light beam is interrupted	
Electrical specifications			
Operating voltage	UB	10 30 V DC , class 2	
No-load supply current	I ₀	< 10 mA	
Input			
Test input		Test of switching function at 0 V	
Output			
Switching type		NO contact / dark on	
Signal output		1 PNP 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	
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		200 mm fixed cable with 4-pin, M8x1 connector	
Material			
Housing		PC/ABS and TPU	
Optical face		glass	
Cable		PUR	
Mass		approx. 20 g	
Cable length		200 mm	
Approvals and certificates		al II up Bacagoizad, Class & Dower Source	
UL approval		cULus Recognized, Class 2 Power Source	
CCC approval		CCC approval / marking not required for products rated ≤36 V	

series, mounting bracket MH-R3-03 Mounting aid for sensors from the R3 series, mounting bracket MH-R3-04 Mounting aid for sensors from the R3 series, mounting bracket V31-WM-2M-PUR Female cordset single-ended, M8, 4-pin, PUR cable circuit : LED green V31-GM-2M-PUR light beam ; flashes OFF when light beam is Female cordset single-ended, M8, 4-pin, PUR cable Other suitable accessories can be found at www.pepperl-fuchs.com erse polarity protected,

Release date: 2019-10-30 03:06 Date of issue: 2019-10-30 269700_eng.xml

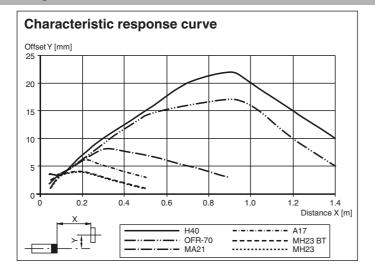
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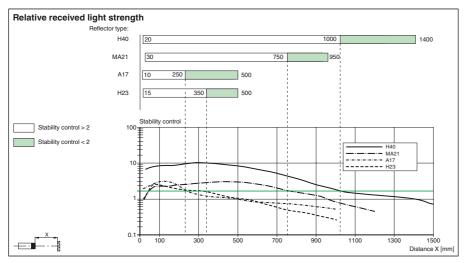
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Curves/Diagrams





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