



Model Number

OBE200-R2-SE2-0,2M-V3

Thru-beam sensor with fixed cable and 3-pin, M8 connector

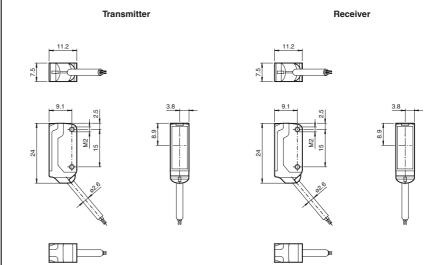
Features

- 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
- Small, sharp light spot

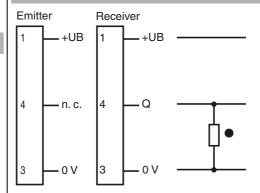
Product information

The R2 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.

Dimensions



Electrical connection

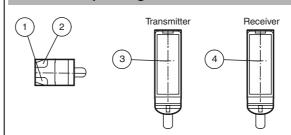


- O = Light on
- = Dark on

Pinout



Indicators/operating means



Operating display

Technical data		
System components		
Emitter		OBE200-R2-0,2M-V3
Receiver		OBE2000-R2-E2-0,2M-V3
General specifications		
Effective detection range		0 0.2 m
Threshold detection range		0.3 m
Light source		LED
Light type		modulated visible red light, 630 nm
Angle deviation		approx. 2 °
Diameter of the light spot		0.5 mm at a distance of 50 mm
Angle of divergence		approx. 2 °
Optical face		frontal
Ambient light limit		EN 60947-5-2 : 30000 Lux
Functional safety related parar	neters	
MTTF _d		806 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		Receiver: LED yellow, lights up when light beam is free, flashes when falling short of the stability control; OFF when light beam is interrupted
Electrical specifications		
Operating voltage	U_B	10 30 V DC , class 2
No-load supply current	I ₀	Emitter: ≤ 11 mA Receiver: ≤ 8 mA
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
Voltage drop	U _d	≤ 1.5 V DC
Switching frequency	f	approx. 800 Hz
Response time		600 μs
Ambient conditions		
Ambient temperature		-25 60 °C (-13 140 °F)
Storage temperature		-30 70 °C (-22 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		200 mm fixed cable with 3-pin, M8 x 1 connector
Material		20/120 1227
Housing		PC/ABS and PBT
Optical face		glass
Cable		PUR
Installation		Fixing screws , 2 x M2 allen head screws included with delivery
Mass Cable length		approx. 20 g Per sensor
Cable length	ا مانده د	200 mm
Compliance with standards an ves	a airect	i-
Directive conformity		FN 60047 F 0:0007
EMC Directive 2004/108/EC		EN 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Recognized, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated ≤36 V
σου αρρισναι		See approvary marking not required for products rated 500 V

Accessories

MH-R2-01

Mounting bracket

MH-R2-02

Mounting bracket

MH-R2-03

Mounting bracket

MH-R2-04

Mounting bracket

V3-GM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

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

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