Receiver





Model Number

OBE2000-R2-SE2-0,2M-V3-Y267444

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

Features

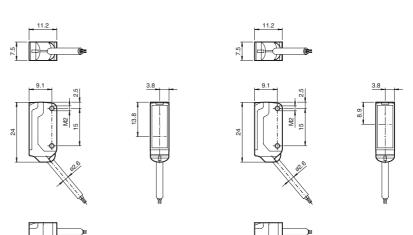
- Ultra-small housing design
- 45° cable outlet for maximum mounting freedom under extremely tight space constraints
- Improvement in machine availability with abrasion-resistant, antistatic glass front
- Long sensor range with high power

Product information

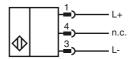
The nano sensor has been developed for a broad range of applications. It offers excellent durability and is exceptionally easy to install. The housing is compact and, with its $45^{\circ}\,$ cable outlet, can be installed in the smallest spaces. New functional principles and functionality open up a range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

Dimensions

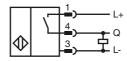
Transmitter



Electrical connection emitter



Electrical connection receiver



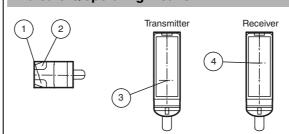
Pinout

dance with EN 60947-5-2



(brown) (blue) (black) BN BU BK

Indicators/operating means



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

Technical data System components Emitter OBE2000-R2-0,2M-V3-Y267431 OBE2000-R2-E2-0,2M-V3 General specifications Effective detection range 0 ... 2 m Threshold detection range 2.5 m LFD Light source Light type modulated visible red light, 630 nm Angle deviation approx. 2° Diameter of the light spot 150 mm at a distance of 2000 mm approx. 2° Angle of divergence Optical face frontal EN 60947-5-2: 30000 Lux Ambient light limit Functional safety related parameters $MTTF_d$ 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 **Electrical specifications** 10 ... 30 V DC , class 2 Operating voltage Emitter: ≤ 11 mA No-load supply current I_0 Receiver: ≤ 8 mA Output Switching type NO contact / dark on Signal output 1 PNP output, short-circuit protected, reverse polarity protected, open collector max. 30 V DC Switching voltage Switching current max. 50 mA Voltage drop U_{d} ≤ 1.5 V DC Switching frequency 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** Housing width 7.5 mm Housing height 24 mm 11.2 mm Housing depth Degree of protection IP67 2 m fixed cable Connection Material PC/ABS and TPU Housing Optical face glass Cable Installation Fixing screws, 2 x M2 allen head screws included with delivery Mass approx. 20 g Per sensor Cable length 200 mm Compliance with standards and directives Directive conformity EMC Directive 2004/108/EC EN 60947-5-2:2007 Approvals and certificates **UL** approval cULus Recognized, Class 2 Power Source

Accessories

MH-R2-01

Mounting aid for R2 series, Mounting bracket

MH-R2-02

Mounting aid for R2 series, Mounting bra-

MH-R2-03

Mounting aid for R2 series, Mounting bra-

MH-R2-04

Mounting aid for R2 series, Mounting bra-

V3-WM-2M-PUR

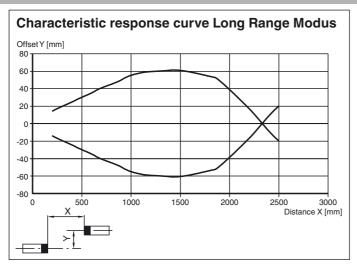
Cable socket, M8, 3-pin, PUR cable

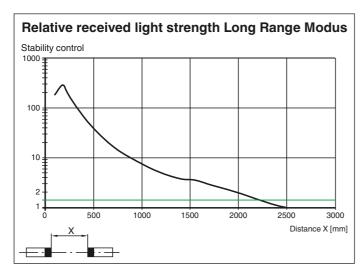
Other suitable accessories can be found at www.pepperl-fuchs.com

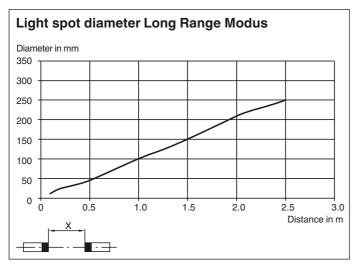
PEPPERL+FUCHS

CCC approval

CCC approval / marking not required for products rated ≤36 V







www.pepperl-fuchs.com