





C € c **?**2\0 us

Model Number

OBR1000-R3-E3

Retroreflective sensor with 2 m fixed cable

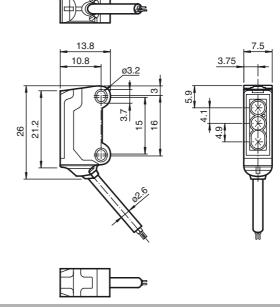
Features

- 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 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.

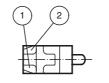
Dimensions

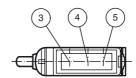


Electrical connection



Indicators/operating means





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

Technical data General specifications Effective detection range 0 ... 1 m Reflector distance 40 ... 1000 mm Threshold detection range 1.4 m H40 reflector Reference target LFD Light source Light type modulated visible red light, 630 nm Polarization filter 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 EN 60947-5-2: 30000 Lux Ambient light limit Functional safety related parameters $MTTF_d$ 800 a Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means LED green, statically lit Power on , short-circuit : LED green Operation indicator 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 **Electrical specifications** 10 ... 30 V DC , class 2 Operating voltage U_{B} No-load supply current < 10 mA In Input Test of switching function at 0 V Test input Output Switching type 1 PNP output, short-circuit protected, reverse polarity protected, Signal output open collector Switching voltage max. 30 V DC max. 50 mA, resistive load Switching current Voltage drop U_{d} ≤ 1.5 V DC approx. 800 Hz Switching frequency Response time 600 μs Conformity EN 60947-5-2 Product standard **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 2 m fixed cable Connection Material Housing PC/ABS and TPU Optical face glass **PUR** Cable Mass approx. 20 g Cable length Approvals and certificates **UL** approval cULus Recognized, Class 2 Power Source

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

FPEPPERL+FUCHS

CCC approval

CCC approval / marking not required for products rated \leq 36 V

Curves/Diagrams

