



# **Model Number**

#### OBE2000-R3-SE1-Y302635

Thru-beam sensor with 2 m fixed cable

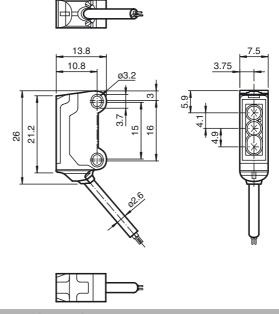
## **Features**

- 45° cable outlet for maximum mounting freedom under extremely tight space constraints
- Extremely large detection range in Long Range Mode

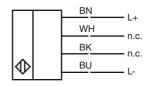
#### **Product information**

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.

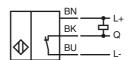
## **Dimensions**



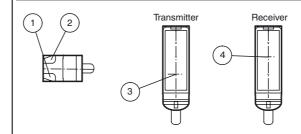
# **Electrical connection emitter**



## **Electrical connection receiver**



# Indicators/operating means



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

**Technical data** System components Emitter OBE2000-R3-Y302637 OBE2000-R3-E1-Y302636 **General specifications** Effective detection range 0 ... 2 m Threshold detection range 2.5 m Light source LFD Light type modulated visible red light, 630 nm Angle deviation approx. 2 Diameter of the light spot approx. 150 mm at a distance of 2000 mm Angle of divergence approx. 2 Optical face Ambient light limit EN 60947-5-2: 30000 Lux Functional safety related parameters 806 a  $\mathsf{MTTF}_\mathsf{d}$ 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 is interrupted **Electrical specifications** Operating voltage  $\mathsf{U}_\mathsf{B}$ 10 ... 30 V DC, class 2 No-load supply current Emitter: ≤ 11 mA  $I_0$ Receiver: ≤ 8 mA Output Switching type NC contact Signal output 1 NPN output, short-circuit protected, reverse polarity protected, open collector Switching voltage max. 30 V DC Switching current max. 50 mA, resistive load  $U_{\text{d}}$ ≤ 1.5 V DC Voltage drop Switching frequency approx. 100 Hz Response time 5 ms Conformity Product standard EN 60947-5-2 **Ambient conditions** Ambient temperature -25 ... 60 °C (-13 ... 140 °F) -30 ... 70 °C (-22 ... 158 °F) Storage temperature **Mechanical specifications** 7.5 mm Housing width Housing height 26 mm Housing depth 13.8 mm Degree of protection IP67 Connection 2 m fixed cable Material Housing PC/ABS and TPU Optical face Polycarbonate Cable Mass approx. 20 g Per sensor Cable length 2 m 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 ≤36 V

# **Curves/Diagrams**

