



## **Model Number**

#### OBE2000-R3-SE1-Y302635

Thru-beam sensor with 2 m fixed cable

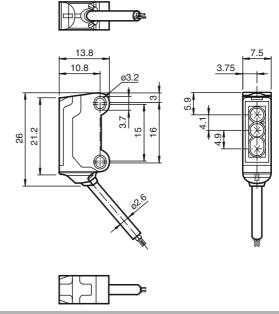
### **Features**

- 45° cable outlet for maximum mounting freedom under extremely tight space constraints
- Improvement in machine availability with abrasion-resistant, antistatic glass front
- Extremely large detection range in Long Range Mode

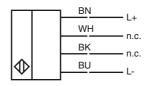
# **Product information**

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.

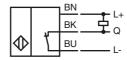
### **Dimensions**



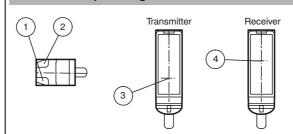
## **Electrical connection emitter**



### **Electrical connection receiver**



## Indicators/operating means



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

Technical data

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

Technical data		
System components		
Emitter		OBE2000-R3-Y302637
Receiver		OBE2000-R3-E1-Y302636
General specifications		
Effective detection range		0 2 m
Threshold detection range		2.5 m
Light source		LED
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		frontal
Ambient light limit		EN 60947-5-2 : 30000 Lux
Functional safety related parar	neters	
MTTF <sub>d</sub>		806 a
Mission Time (T <sub>M</sub> )		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, flash when falling short of the stability control; OFF when light bea is interrupted
Electrical specifications		
Operating voltage	$U_B$	10 30 V DC , class 2
No-load supply current	I <sub>0</sub>	Emitter: ≤ 11 mA Receiver: ≤ 8 mA
Output		
Switching type		NC contact
Signal output		NPN 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. 100 Hz
Response time		5 ms
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 60947-5-2:2007 EN 60947-5-2/A1:2012
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		2 m fixed cable
Material		
Housing		PC/ABS and TPU
Optical face		Polycarbonate
Cable		PUR
Mass		approx. 20 g Per sensor
Cable length		2 m
Approvals and certificates		al III us Pagagnizad, Class 2 Payer Sauras
UL approval		cULus Recognized, Class 2 Power Source
CCC approval		CCC approval / marking not required for products rated ≤36

Release date: 2018-12-13 13:05 Date of issue: 2018-12-13 302635\_eng.xml

FPEPPERL+FUCHS

