







Model Number

OBT15-R3-E0-1T

Triangulation sensor (BGE) with 2 m fixed cable

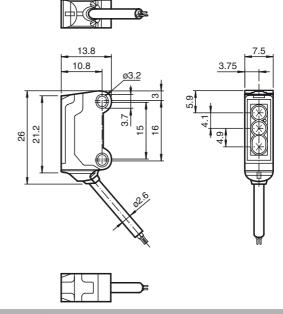
Features

- 45° cable outlet for maximum mounting freedom under extremely tight space constraints
- Improvement in machine availability with abrasion-resistant, antistatic glass front
- Detection of flat objects in front of a close background
- Extremely small light spot for very high switching point accuracy
- Highly visible light spot, even on dark materials

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.

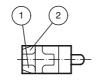
Dimensions

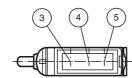


Electrical connection



Indicators/operating means





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

Technical data General specifications 0 ... 15 mm Detection range Reference target standard white, 100 mm x 100 mm Light source modulated visible red light, 630 nm Light type Black/White difference (6 %/90 %) < 5 % at 15 mm Angle deviation approx. 2 ° Diameter of the light spot approx. 2 mm at a distance of 15 mm approx. 2 Angle of divergence Optical face frontal EN 60947-5-2: 30000 Lux Ambient light limit Functional safety related parameters 800 a $MTTF_d$ Mission Time (T_M) 20 a Diagnostic Coverage (DC) 0 % Indicators/operating means LED green: Power on flashing: Short circuit/overload indication Operation indicator LED yellow ON: sensor detects background Function indicator **Electrical specifications** 10 ... 30 V DC , class 2 Operating voltage U_{B} No-load supply current < 10 mA I_0 Output Switching type NO contact 1 NPN output, short-circuit protected, reverse polarity protected, Signal output open collector Switching voltage max. 30 V DC Switching current max. 50 mA, resistive load Voltage drop U_d ≤ 1.5 V DC approx. 800 Hz Switching frequency Response time 600 μs **Ambient conditions** Ambient temperature -25 ... 60 °C (-13 ... 140 °F) -30 ... 70 °C (-22 ... 158 °F) Storage temperature **Mechanical specifications** Housing width 7.5 mm Housing height Housing depth 13.8 mm Degree of protection IP67 2 m fixed cable Connection Material Housing PC/ABS and TPU Optical face alass Cable **PUR** Mass approx. 20 g Cable length Compliance with standards and directi-

EN 60947-5-2:2007

cULus Recognized, Class 2 Power Source

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

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

www.pepperl-fuchs.com

ves

Directive conformity

UL approval

CCC approval

EMC Directive 2004/108/EC

Approvals and certificates

Curves/Diagrams

