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Model Number

OBT15-R2-E2-1T

Triangulation sensor (BGE) with 2 m fixed cable

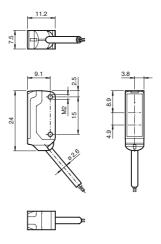
Features

- High-performance miniature photoelectric sensors
- 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.

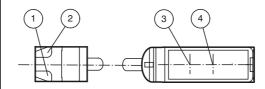
Dimensions



Electrical connection



Indicators/operating means



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

Technical data General specifications Detection range 0 ... 15 mm 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 Angle of divergence approx. 2 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 Function indicator LED yellow ON: sensor detects background **Electrical specifications** 10 ... 30 V DC , class 2 Operating voltage U_{B} No-load supply current < 10 mA l₀ Output Switching type NO contact 1 PNP 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 Switching frequency approx. 800 Hz Response time 600 μs Conformity EN 60947-5-2 Product standard Ambient conditions -25 ... 60 °C (-13 ... 140 °F) Ambient temperature Storage temperature -30 ... 70 °C (-22 ... 158 °F) **Mechanical specifications** Housing width 7.5 mm Housing height 24 mm Housing depth 11.2 mm Degree of protection IP67 2 m fixed cable Connection Material PC/ABS and TPU Housing Optical face glass Cable PUR Installation Fixing screws, 2 x M2 allen head screws included with delivery Mass approx. 20 g 2 m Cable length Approvals and certificates cULus Recognized, Class 2 Power Source **UL** approval

Accessories

MH-R2-01

Mounting aid for R2 series, Mounting bracket

MH-R2-02

Mounting aid for R2 series, Mounting bracket

MH-R2-03

Mounting aid for R2 series, Mounting

MH-R2-04

Mounting aid for R2 series, Mounting

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

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Curves/Diagrams

