

Thru-beam sensor

OBE2000-R2-SE2-0,2M-V3-Y267444



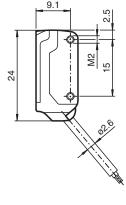
- Ultra-small housing design
- 45° cable outlet for maximum mounting freedom under extremely tight space constraints
- Improvement in machine availability with abrasion-resistant, antistatic glass front
- Long sensor range with high power mode

Thru-beam sensor for standard applications, miniature design, 2000 mm detection range, red light, dark on, PNP output, fixed cable with M8 plug

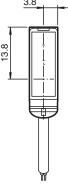
The nano sensor has been developed for a broad range of applications. It offers excellent durability and is exceptionally easy to install. The housing is compact and, with its 45° cable outlet, can be installed in the smallest spaces. New functional principles and functionality open up a range of new options.

Dimensions

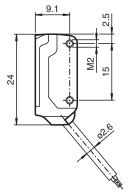
Transmitter

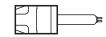


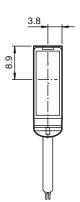




Receiver





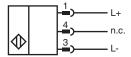


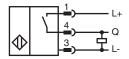
Technical Data

System components Emitter OBE2000-R2-0,2M-V3-Y267431 Receiver OBE2000-R2-E2-0,2M-V3 **General specifications** Effective detection range 0 ... 2 m 2.5 m Threshold detection range Light source LED modulated visible red light, 630 nm Light type Angle deviation approx. 2° 150 mm at a distance of 2000 mm Diameter of the light spot Opening angle approx. 2° Optical face frontal Ambient light limit EN 60947-5-2: 30000 Lux Functional safety related parameters 806 a $MTTF_d$ 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) Receiver: LED yellow, lights up when light beam is free, flashes when falling short of the stability control; OFF when light beam is interrupted Function indicator **Electrical specifications** Operating voltage U_{B} 10 ... 30 V DC , class 2 No-load supply current Emitter: ≤ 11 mA I_0 Receiver: ≤ 8 mA Output NO contact / dark-on Switching type Signal output 1 PNP output, short-circuit protected, reverse polarity protected, open collector Switching voltage max. 30 V DC Switching current max. 50 mA ≤ 1.5 V DC Voltage drop $U_{\text{d}} \\$ Switching frequency approx. 800 Hz Response time 600 μs Conformity Product standard EN 60947-5-2 Approvals and certificates EAC conformity TR CU 020/2011 **UL** approval cULus Recognized, Class 2 Power Source CCC approval CCC approval / marking not required for products rated ≤36 V **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 24 mm 11.2 mm Housing depth Degree of protection IP67 Connection fixed cable with 3-pin M8 x 1 connector Material PC/ABS and TPU Housing Optical face glass PUR Cable

Technical Data	
Installation	Fixing screws , 2 x M2 allen head screws included with delivery
Mass	approx. 20 g per sensor
Cable length	200 mm

Connection





Accessories

V3-WM-2M-PUR

	MH-R2-01	Mounting aid for R2 series, Mounting bracket
1970	MH-R2-02	Mounting aid for R2 series, Mounting bracket
	MH-R2-03	Mounting aid for R2 series, Mounting bracket
	MH-R2-04	Mounting aid for R2 series, Mounting bracket

Female cordset single-ended M8 angled A-coded, 3-pin, PUR cable grey

