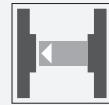




Thru-beam sensor

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

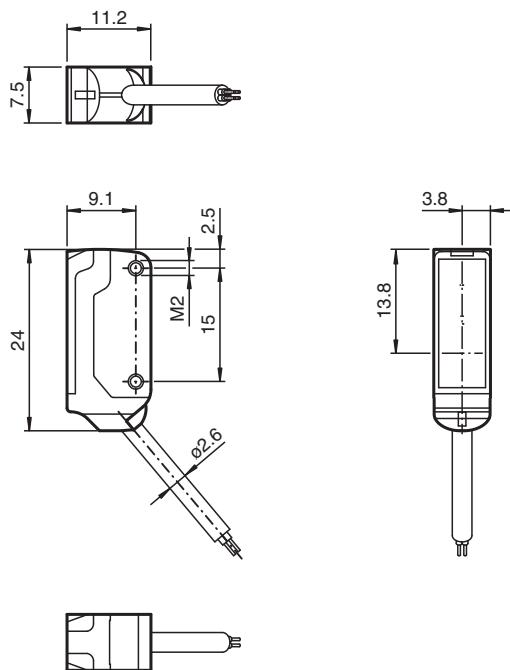
Thru-beam sensor for standard applications, miniature design, 2000 mm detection range, red light, dark on, PNP output, fixed cable with M8 plug



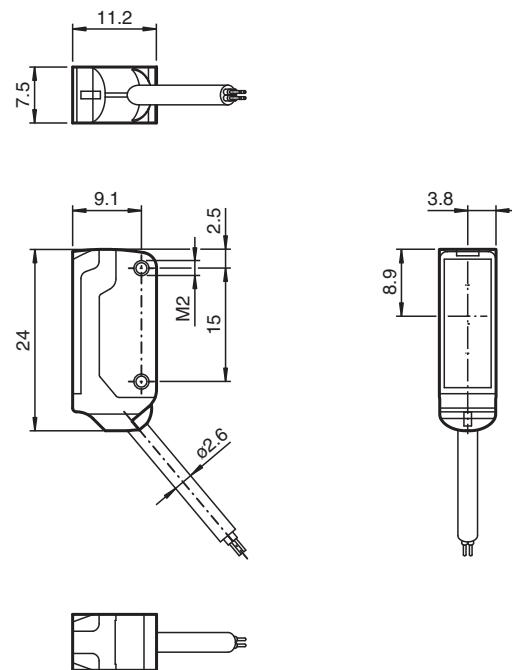
The nano sensor has been developed for a broad range of applications. It offers excellent durability and is exceptionally easy to install. The housing is compact and, with its 45° cable outlet, can be installed in the smallest spaces. New functional principles and functionality open up a range of new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

Dimensions

Transmitter



Receiver



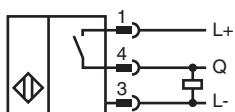
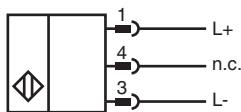
Technical Data

System components		
Emitter	OBE2000-R2-0,2M-V3-Y267431	
Receiver	OBE2000-R2-E2-0,2M-V3	
General specifications		
Effective detection range	0 ... 2 m	
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	150 mm at a distance of 2000 mm	
Opening angle	approx. 2 °	
Optical face	frontal	
Ambient light limit	EN 60947-5-2 : 30000 Lux	
Functional safety related parameters		
MTTF _d	806 a	
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	U _B	10 ... 30 V DC , class 2
No-load supply current	I ₀	Emitter: ≤ 11 mA Receiver: ≤ 8 mA
Output		
Switching type	NO contact / dark-on	
Signal output	1 PNP output, short-circuit protected, reverse polarity protected, open collector	
Switching voltage	max. 30 V DC	
Switching current	max. 50 mA	
Voltage drop	U _d	≤ 1.5 V DC
Switching frequency	f	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)	
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	
Connection	fixed cable with 3-pin M8 x 1 connector	
Material		
Housing	PC/ABS and TPU	
Optical face	glass	
Cable	PUR	

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

	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 bracket
	MH-R2-04	Mounting aid for R2 series, Mounting bracket
	V3-WM-2M-PUR	Female cordset single-ended M8 angled A-coded, 3-pin, PUR cable grey