Thru-beam sensor

CE

Model Number

OBE2000-R2-SE3-0,2M-V3-Y267445

Thru-beam sensor with fixed cable and 3-pin, M8 connector

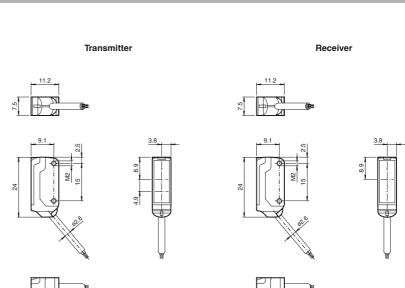
Features

- Ultra-small housing design ٠
- 45° cable outlet for maximum ٠ mounting freedom under extremely tight space constraints
- Improvement in machine availability ٠ with abrasion-resistant, antistatic glass front
- Long sensor range with high power ٠ mode

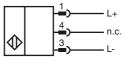
Product information

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.

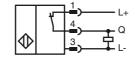
Dimensions



Electrical connection emitter



Electrical connection receiver

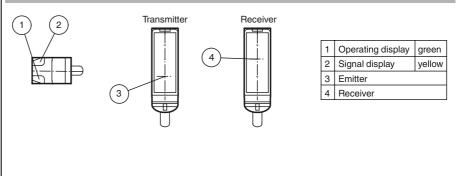


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Pinout

dance with EN 60947-5-2 Wire colors in acco BN BU BK (brown) (blue) (black)

Indicators/operating means



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USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111 fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

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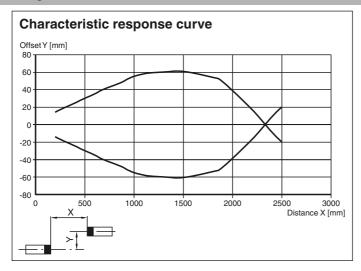
Technical data			Accessories	
			Accessories	
System components			MH-R2-01	
Emitter		OBE2000-R2-0,2M-V3-Y267431	Mounting aid for R2 series, Mounting	
Receiver		OBE2000-R2-E3-0,2M-V3	bracket	
General specifications				
Effective detection range		0 2 m	MH-R2-02 Mounting aid for R2 series, Mounting bracket	
Threshold detection range		2.5 m		
Light source		LED	MH-R2-03	
Light type		modulated visible red light , 630 nm	Mounting aid for R2 series, Mounting bracket MH-R2-04 Mounting aid for R2 series, Mounting bracket	
Angle deviation		approx. 2 °		
Diameter of the light spot		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 par	rameters		Sidokot	
MTTF _d 806 a			V3-WM-2M-PUR	
Mission Time (T _M)		20 a	Female cordset single-ended, M8, 3-pir	
Diagnostic Coverage (DC)		0 %	PUR cable	
Indicators/operating means				
Operation indicator		LED green, statically lit Power on , short-circuit : LED green flashing (approx. 4 Hz)	Other suitable accessories can be found a www.pepperl-fuchs.com	
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	-	Emitter: ≤ 11 mA		
No-load supply current	Ι _Ο	Receiver: ≤ 8 mA		
Output				
Switching type		NC contact		
Signal output		1 PNP output, short-circuit protected, reverse polarity protected,		
Switching voltage		open collector max. 30 V DC		
Switching current		max. 50 mA		
Voltage drop	U _d	≤ 1.5 V DC		
Switching frequency	f Ud			
	1	approx. 800 Hz		
Response time		600 μs		
Conformity				
Product standard		EN 60947-5-2		
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		200 mm fixed cable with 3-pin, M8 x 1 connector		
Material				
Housing		PC/ABS and TPU		
Optical face		glass		
Cable		PUR		
Installation		Fixing screws , 2 x M2 allen head screws included with delivery		
Mass		approx. 20 g Per sensor		
Cable length		200 mm		
Approvals and certificates		al II us Pagagnizad, Class 2 Power Source		
Approvals and certificates UL approval CCC approval		cULus Recognized, Class 2 Power Source CCC approval / marking not required for products rated ≤36 V		

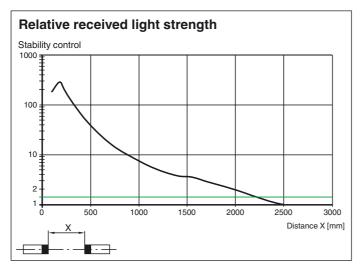
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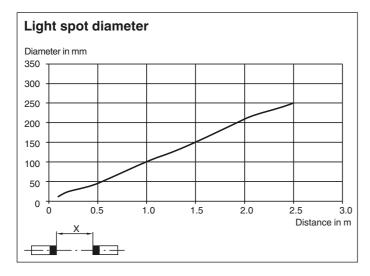
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Curves/Diagrams







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