

Thru-beam sensor (receiver) OBE2000-R3-E2-0,2M-V3-P



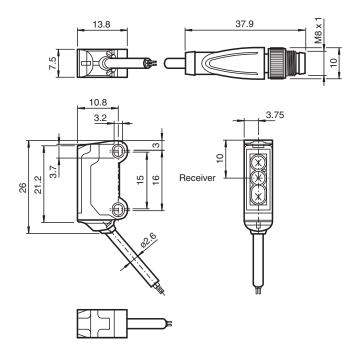
- 45° cable outlet for maximum mounting freedom under extremely tight space constraints
- Long sensor range with high power mode



Function

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

Dimensions



Technical Data

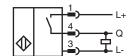
General specifications					
Effective detection range	Long range mode: 0 2 m High precision mode: 0 200 mm				
Threshold detection range	Long range mode: 2.5 m High precision mode: 300 mm				
Light source	LED				
Light type	modulated visible red light , 630 nm				

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Technical Data			
Angle deviation		approx. 2°	
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 operating reserve; OFF when light beam is interrupted	
Electrical specifications			
Operating voltage	U_B	10 30 V DC , class 2	
No-load supply current	I ₀	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 , resistive load	
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			
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		26 mm	
Housing depth		13.8 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		PC	
Cable		PUR	
Mass		approx. 20 g per sensor	
Cable length		200 mm	

Connection



Connection Assignment



Wire colors in accordance with EN 60947-5-2

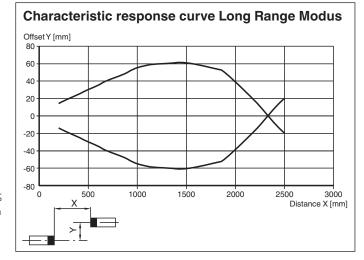
1 BN (brown) 3 BU (blue) 4 BK (black)

Indication

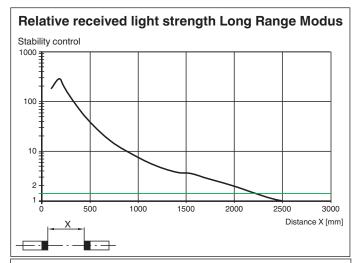


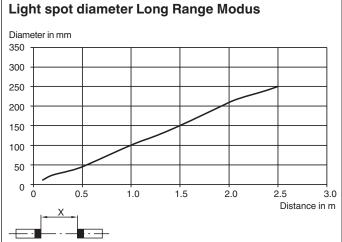
1	Operating display	green
2	Signal display	vellow

Characteristic Curve



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Accessories



V3-WM-2M-PUR

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