



Thru-beam sensor (pair)

OBE35M-R202-SE0



- Medium design with versatile mounting options
- Degree of protection IP67
- Mounting on full metal sockets
- Very bright, highly visible light spot
- Highly visible LEDs for Power ON and switching state
- Image is generic for this device type and may deviate from the specific variant







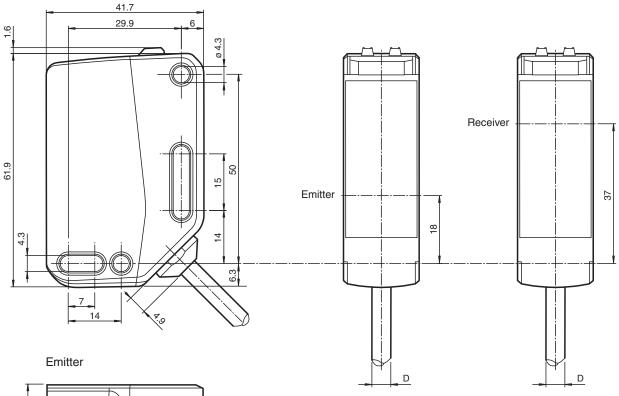
Function

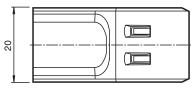
The optical sensors of this series for applications in standard automation have a modern housing design. The sensors are characterized by the many mounting options, easy handling and highly visible LED status indicators. The integrated full metal bushings ensure long-term secure and dimensionally stable mounting.

Dimensions

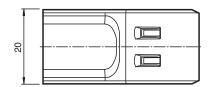
Drawing is generic for this device type and may deviate from the specific variant. For the number of cores refer to connection diagram.

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Receiver



Technical Data

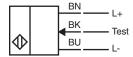
OBE35M-R202-S-Y0025
OBE35M-R202-E0
0 35 m
47 m
LED
modulated visible red light

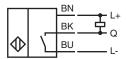
Technical Data		
LED risk group labelling		exempt group
Transmitter frequency		F1 = 8.2 kHz
Diameter of the light spot		approx. 1200 mm at a distance of 35 m
Opening angle		2°
Ambient light limit		EN 60947-5-2 : 40000 Lux
Functional safety related parameters		211 333 17 G 2 1 10333 24A
MTTF _d		656 a
Mission Time (T _M)		20 a
Diagnostic Coverage (DC)		0%
Indicators/operating means		0 70
Operation indicator		LED green:
Operation indicator		on - power on flashing (4 Hz) - short circuit
Function indicator		Yellow LED: Permanently lit - light path clear Permanently off - object detected Flashing (4 Hz) - insufficient operating reserve Flashing (8 Hz) - fault detected, the outputs maintain the status
Control elements		none
Electrical specifications		
Operating voltage	U_B	10 30 V DC
Ripple		max. 10 %
No-load supply current	I ₀	Emitter: ≤ 25 mA
		Receiver: ≤ 40 mA at 24 V Operating voltage
Protection class		
Input		
Test input		emitter deactivation at 0 V
Output		
Switching type		Q - BK: NPN normally open / dark-on
Signal output		1 NPN output, short-circuit protected, reverse polarity protected, open collector
Switching voltage		max. 30 V DC
Switching current		max. 100 mA, resistive load
Usage category		DC-12 and DC-13
Voltage drop	U_d	≤ 1.5 V DC
Switching frequency	f	1000 Hz
Response time		0.5 ms
Conformity		
Product standard		EN 60947-5-2
Approvals and certificates		
UL approval		E87056, cULus Listed, class 2 power supply, type rating 1
CCC approval		CCC approval / marking not required for products rated ≤36 V
Ambient conditions		0
Ambient temperature		-30 60 °C (-22 140 °F) , cable, fixed installation -20 60 °C (-4 140 °F) , movable cable not appropriate for conveyor chains
Storage temperature		-40 70 °C (-40 158 °F)
Mechanical specifications		
Degree of protection		IP67
Connection		2 m fixed cable
Material		
Housing		PC (Polycarbonate)
Optical face		PMMA
Mass		Emitter: approx. 95 g receiver: approx. 100 g
Dimensions		
Height		61.9 mm

Technical Data

Width	20 mm	
Depth	41.7 mm	
Cable length	2 m	

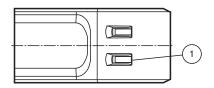
Connection





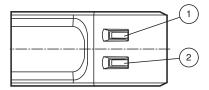
Indication

Emitter



1 Operation indicator GN

Receiver



1	Signal indicator	YE	
2	Operation indicator	GN	

