



Triangulation sensor (BGS) OBT1250-R202-2EP-V1-IR



- Medium design with versatile mounting options
- Degree of protection IP67
- Mounting on full metal sockets
- Version with infrared light
- Highly visible LEDs for Power ON and switching state
- Easy to use
- Image is generic for this device type and may deviate from the specific variant







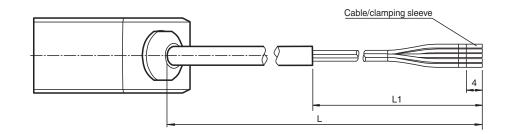
Function

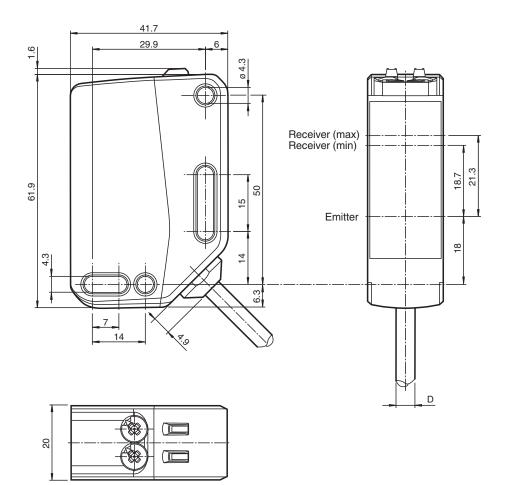
The optical sensors of this series for applications in standard automation have a modern housing design. The sensors are characterized by the many mounting options, easy handling and highly visible LED status indicators. The integrated full metal bushings ensure long-term secure and dimensionally stable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

Dimensions





Technical Data

General specifications	
Detection range	0 1250 mm
Detection range min.	0 200 mm
Detection range max.	0 1250 mm
Adjustment range	200 1250 mm
Reference target	standard white, 100 mm x 100 mm
Light source	LED
Light type	modulated infrared light

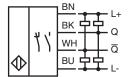
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

2

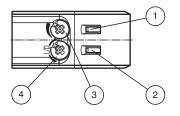
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	exempt group
	< 35 % at 1250 mm
	approx. 50 mm at a distance of 1250 mm
	3°
	EN 60947-5-2 : 30000 Lux
	876 a
	20 a
	0%
	LED green: on - power on
	flashing (4 Hz) - short circuit LED yellow:
	constantly on - object detected constantly off - object not detected Flashing (8 Hz) - fault detected, the outputs maintain the status
	Light-on/dark-on changeover switch
	Sensing range adjuster
U_B	10 30 V DC
	max. 10 %
I_0	< 35 mA at 24 V Operating voltage
	III
	The switching type of the sensor is adjustable. The default setting is: Q - BK: NPN normally open / light-on, PNP normally closed / dark-on /Q - WH: NPN normally closed / dark-on, PNP normally open / light-on
	$2\ \text{push-pull}\ (4\ \text{in 1})$ outputs, complementary, short-circuit proof, reverse polarity protected
	001/ 00
	max. 30 V DC
	max. 100 mA , resistive load
U _d	max. 100 mA , resistive load
U _d	max. 100 mA , resistive load DC-12 and DC-13 ≤ 1.5 V DC 1000 Hz
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Connection

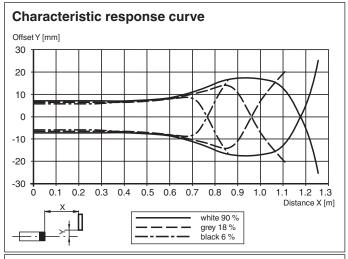


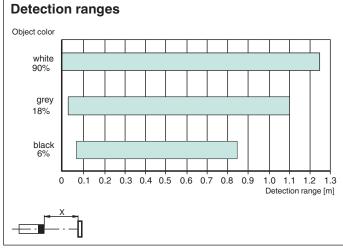
Assembly

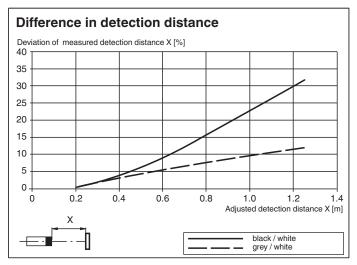


1	Function indicator	
2	Operation indicator	
3	Sensitivity adjuster	
4	Light-on / dark-on changeover switch	

Characteristic Curve







Commissioning

Sensing Range / Sensitivity
Turn sensing range / sensitivity adjuster clockwise to increase sensing range / sensitivity.
Turn sensing range / sensitivity adjuster counter clockwise to decrease sensing range / sensitivity.
The internal end stop signals the end of the adjustment range.

Light-on / Dark-on ConfigurationTo set light switching or dark switching, turn the light/dark changeover switch to the end stop:

• clockwise: dark switching

- · counterclockwise: light switching