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Model Number

OBT350-R100-EP-IO-0,3M-V3-1T

Triangulation sensor (BGE) with fixed cable and 3-pin, M8 connector

Features

- Miniature design with versatile mounting options
- Secure and gapless detection, even near the surface through background evaluation
- Precision object detection, almost irrespective of the color
- Extended temperature range -40°C ... 60°C
- High degree of protection IP69K
- IO-link interface for service and process data

Product information

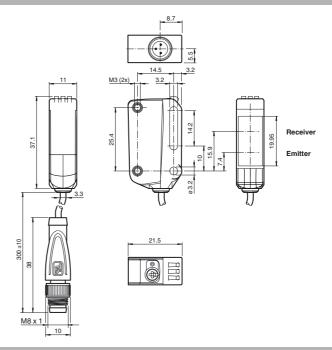
The R100 series miniature optical sensors are the first devices of their kind to offer an end-to-end solution in a small single standard design — from thru-beam sensor through to a distance measurement device. As a result of this design, the sensors are able to perform practically all standard automation tasks.

The entire series enables sensors to communicate via IO-Link.

The DuraBeam laser sensors are durable and can be used in the same way as a standard

The use of Multi Pixel Technology gives the standard sensors a high level of flexibility and enables them to adapt more effectively to their operating environment.

Dimensions



Electrical connection



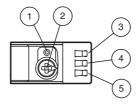
Pinout

Wire colors in accordance with EN 60947-5-2



BN BU

Indicators/operating means



- Light-on / dark-on changeover switch
- 2 Sensing range adjuster
- 3 Operating indicator / dark on
- 4 Signal indicator
- Operating indicator / light on

Detection range min.			
Detection range min. 5 25 mm	Technical data		
Detection range max. 5 25 mm	•		
Detection range max.	•		
Adjustment range			
Reference target Standard white, 100 mm x 100 mm Light source LED	•		
LED Light type modulated visible red light LED risk group labelling exempt group Black/White difference (6 %90 %) approx. 20 mm at a distance of 350 mm Angle of divergence approx. 20 mm at a distance of 350 mm Angle of divergence approx. 20 mm at a distance of 350 mm Angle of divergence approx. 20 mm at a distance of 350 mm Angle of divergence approx. 3 ° Ambient light limit ENCHOWN 20 approx. 20 mm at a distance of 350 mm Angle of divergence approx. 3 ° Ambient light limit ENCHOWN 20 approx. 20 mm at a distance of 350 mm Angle of divergence approx. 3 ° Ambient light limit ENCHOWN 20 approx. 20 mm at a distance of 350 mm Angle of divergence approx. 3 ° Ambient light limit ENCHOWN 20 approx. 20 mm at a distance of 350 mm Angle of divergence approx. 3 ° Ambient light limit ENCHOWN 20 approx. 20 mm at a distance of 350 mm Angle of divergence approx. 3 ° Ambient light limit ENCHOWN 20 approx. 20 mm at a distance of 350 mm Angle of divergence approx. 3 ° Ambient light limit ENCHOWN 20 approx. 20 mm at a distance of 350 mm Angle of divergence approx. 3 ° Ambient light limit ENCHOWN 20 approx. 20 mm Angle of divergence approx. 20 approx. 20 approx. 20 mm Angle of divergence approx. 20 approx. 20 mm Angle of divergence approx. 20 approx. 20 mm Angle of divergence approx. 20			
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LED risk group labelling	•		
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Ambient light limit	- :		• •
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Control elements	Function indicator		LED yellow: constantly on - background detected (object not detected)
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Electrical specifications Operating voltage Ripple			
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Connection 300 mm fixed cable with M8 x 1, 3-pin connector Material			21.5 mm
Material	Degree of protection		IP67 / IP69 / IP69K
	Connection		300 mm fixed cable with M8 x 1, 3-pin connector
Housing PC (Polycarbonate)	Material		
	Housing		PC (Polycarbonate)
Optical face PMMA	Optical face		PMMA
Mass approx. 17 g	Mass		approx. 17 g

Accessories

IO-Link-Master02-USB

IO-Link master, supply via USB port or separate power supply, LED indicators, M12 plug for sensor connection

V3-WM-2M-PUR

Cable socket, M8, 3-pin, PUR cable

OMH-R10X-01

Mounting bracket

OMH-R10X-02

Mounting bracket

OMH-R10X-04

Mounting bracket

OMH-R10X-10

Mounting bracket

OMH-ML100-03

Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm

OMH-ML100-031

Mounting aid for round steel ø 10 ... 14 mm or sheet 1 mm ... 5 mm

V31-GM-2M-PUR

Female cordset, M8, 4-pin, PUR cable

V31-WM-2M-PUR

Female cordset, M8, 4-pin, PUR cable

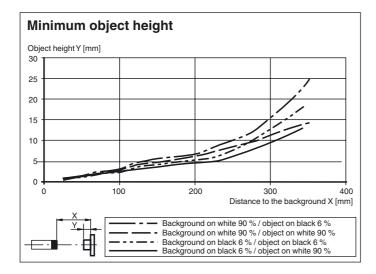
Other suitable accessories can be found at www.pepperl-fuchs.com

Cable length 0.3 m

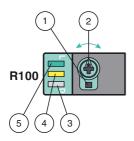
Approvals and certificates

UL approval

E87056, cULus Listed, class 2 power supply, type rating 1



Functions and Operation



- 1 Light-on / dark-on changeover switch
- 2 Sensing range / sensitivity adjuster
- 3 Operating indicator / dark on
- 4 Signal indicator
- 5 Operating indicator / light on

To unlock the adjustment functions turn the sensing range /sensitivity adjuster for more than 180 degrees.

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.

If the end of the adjustment range is reached, the signal indicator starts flashing with 8 Hz.

Light-on / Dark-on Configuration

Press the light-on / dark-on changeover switch for more than 1 second (less than 4 seconds). The light-on / dark-on mode changes and the operating indicators are activated accordingly.

If you press the light-on / dark-on changeover switch for more than 4 seconds, the light-on /dark-on mode changes back to the original setting. On release of the light-on / dark-on changeover switch the current state is activated.

Restore Factory Settings

Press the light-on / dark-on changeover switch for more than 10 seconds (less than 30 seconds) until all LEDs turn off. On release of the light-on / dark-on changeover switch the signal indicator turns on. After 5 seconds the sensor resumes operation with factory default settings.

After 5 minutes of inactivity the sensing range / sensitivity adjustment is locked. In order to reactivate the sensing range / sensitivity adjustment, turn the sensing range / sensitivity adjuster for more than 180 degrees.

www.pepperl-fuchs.com