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# **Model Number**

### OBR10M-R100-2EP-IO-1R-IR

Retroreflective sensor with fixed cable

## **Features**

- Miniature design with versatile mounting options
- Extended temperature range -40°C ... 60°C
- · High degree of protection IP69K
- IO-link interface for service and process data

## **Product information**

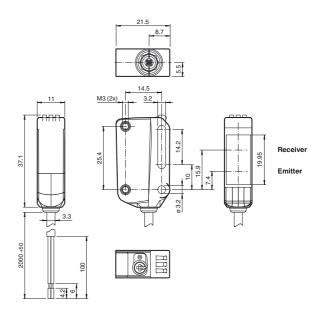
The R100 series miniature optical sensors are the first devices of their kind to offer an end-to-end solution in a small single standard design — from thru-beam sensor through to a distance measurement device. As a result of this design, the sensors are able to perform practically all standard automation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

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

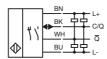
The DuraBeam laser sensors are durable and can be used in the same way as a standard sensor.

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.

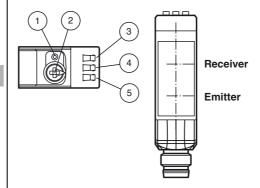
## **Dimensions**



## **Electrical connection**



# Indicators/operating means



- 1 Light-on/Dark-on changeover switch
- 2 Sensitivity adjuster
- 3 Operating indicator / dark on
- 4 Signal indicator
- 5 Operating indicator / light on

### Accessories

### IO-Link-Master02-USB

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

## 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  $\emptyset$  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

#### **REF-H85-2**

Reflector, rectangular 84.5 mm x 84.5 mm, mounting holes

#### REF-H50

Reflector, rectangular 51 mm x 61 mm, mounting holes, fixing strap

### OFR-100/100

Reflective tape 100 mm x 100 mm

#### REF-H33

Reflector with screw fixing

## REF-VR10

Reflector, rectangular 60 mm x 19 mm, mounting holes

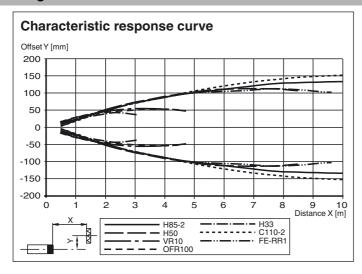
Other suitable accessories can be found at www.pepperl-fuchs.com

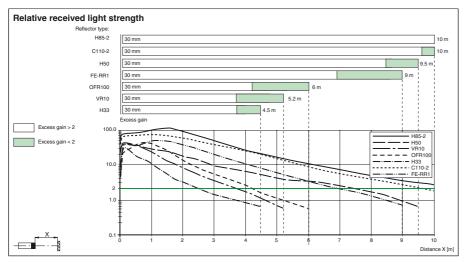
approx. 36 q

Mass

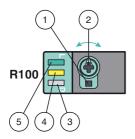
Cable length 2 m Approvals and certificates **UL** approval E87056, cULus Listed, class 2 power supply, type rating 1

# **Curves/Diagrams**





# **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.

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date:

Release

267075-100443\_eng.xml

# **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.