$\mathsf{C}\mathsf{E}$
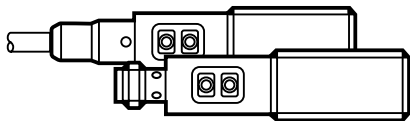
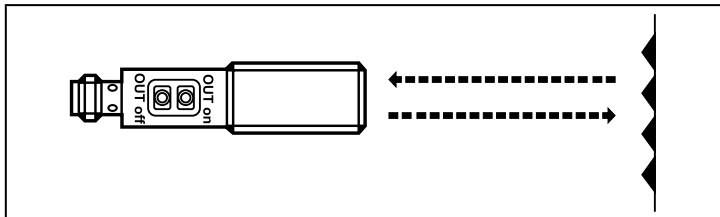Operating instructions
Retro-reflective sensor

OGP50x

1 Functions and features

In conjunction with a prismatic reflector or reflective tape the retro-reflective sensor detects objects and materials without contact and indicates their presence by a switching signal.

Range 0.03...5 m (on prismatic reflector Ø 80 mm; E20005).

2 Installation

▶ Fit the prismatic reflector or the reflective tape behind the object to be detected.

▶ Align the retro-reflective sensor to it and and secure it to a bracket.

Maximum range only with accurate alignment.
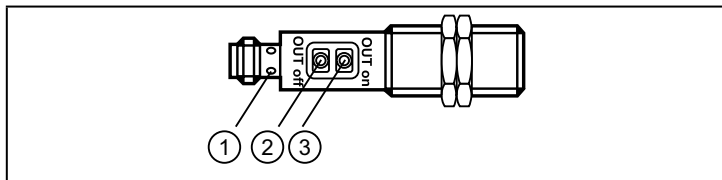
3 Electrical connection

▶ Disconnect power.
▶ Connect the unit as follows.

	Cable	Connector	Pin connection
L+	BN	pin 1	
L-	BU	pin 3	
load	BK	pin 4	
—	—	pin 2	

Core colours   BN = brown, BU = blue, BK = black

4 Operating and display elements

1: LED
2: [OUT off]
3: [OUT on]

4 Settings

4.1 The sensor is to switch when the object is detected

1	▶ Position the object. ▶ Press [OUT on] for 2 s. > The sensitivity is set to the object. > The LED flashes.
2	▶ Remove the object. ▶ Press [OUT off]. > The sensitivity is set without object. > The LED goes out. The programming is finished.

4.2 The sensor is not to switch when the object is detected

▶ Position the object (see figure 1) and press [OUT off] for 2 s.

▶ Remove the object (see figure 2) and press [OUT on].

The settings can also be carried out first without object and then with object.

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4.3 Programming unsuccessful

> LED flashes quickly, 8 Hz.

Possible causes

- Measured value difference too small.
- Max. programming time of 15 min. exceeded.

4.4 Setting of maximum sensitivity

► Align the sensor so that no light is reflected.

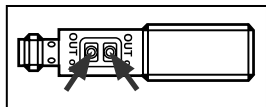**The sensor is to switch when the object is detected**

► First press [OUT on] and then [OUT off].

The sensor is to switch when the object is not detected

► First press [OUT off], then [OUT on].

4.5 Locking or unlocking the buttons

The unit can be locked electronically to prevent unintentional settings.

- ► Press [OUT on] and [OUT off] simultaneously for 10 s.
- > Acknowledgement is indicated by a change of the LED status.

5 Operation

► Check whether the unit operates correctly.

> The LED lights when the switching output is switched.

6 Maintenance

► Keep the lens of the sensor free from soiling.

► For cleaning do not use any solvents or cleaning agents which could damage the plastic lens.

Technical data and further information at www.ifm.com

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