Operating instructions
Retro-reflective sensor
efector2oo
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.

<table>
<thead>
<tr>
<th>Cable</th>
<th>Connector</th>
<th>Pin connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>L+</td>
<td>BN</td>
<td>pin 1</td>
</tr>
<tr>
<td>L-</td>
<td>BU</td>
<td>pin 3</td>
</tr>
<tr>
<td>load</td>
<td>BK</td>
<td>pin 4</td>
</tr>
<tr>
<td>—</td>
<td>—</td>
<td>pin 2</td>
</tr>
</tbody>
</table>

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.
2. Press [OUT on] for 2 s.
   - The sensitivity is set to the object.
   - The LED flashes.

2. Remove the object.
3. 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

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

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