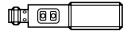


Operating instructions Diffuse reflection sensor with background suppression OGH7xx

CE



1 Preliminary note

1.1 Symbols used

- Instruction
- > Reaction, result
- [...] Designation of pushbuttons, buttons or indications
- → Cross-reference



Important note

Non-compliance can result in malfunctions or interference.

2 Safety instructions

According to the cULus approval

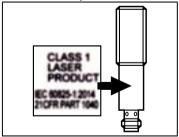
Caution - Use of controls or adjustments or procedures other than those specified herein may result in hazardous radiation exposure.



Visible laser light; CLASS 1 LASER PRODUCT.

EN/IEC 60825-1 : 2007 and EN/IEC 60825-1 : 2014 complies with 21 CFR 1040 except for deviations pursuant to Laser Notice No. 50, dated June 2007

Position of the product label





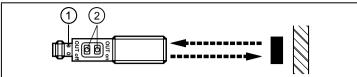


3 Functions and features

The diffuse reflection sensor detects objects and materials without contact and indicates their presence by a switching signal.

Range 20 ... 200 mm (on white paper 200 x 200 mm, 90 % remission)

4 Installation



- 1: LED
- 2: programming buttons
- ▶ Align the diffuse reflection sensor to the object to be detected.
- Secure it to a bracket.

Note:

The objects to be detected are to move transversally to the lens of the sensor.

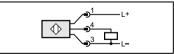
 In case of other directions of movement it should be tested before whether safe switching is guaranteed.

5 Electrical connection

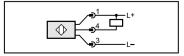
The unit must be connected by a qualified electrician.

- The national and international regulations for the installation of electrical equipment must be adhered to.
- ▶ Voltage supply according to EN 50178.
- Disconnect power.
- Connect the unit as follows:

DC PNP



DC NPN



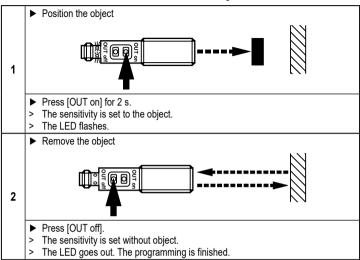
pin 1 = L+ (10...36 V DC) pin 3 = Lpin 4 = load (200 mA) (pin 2 = not connected)

M:1909

pin 1 = L+ (10...36 V DC) pin 3 = Lpin 4 = load (200 mA) (pin 2 = not connected)

6 Settings

6.1 The sensor is to switch when the object is detected



6.2 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 setting can also be carried out first without object and then with object.

6.3 Setting of the 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], then [OUT off].

The sensor is to switch when the object is not detected

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

6.4 Programming unsuccessful

- > The LED flashes quickly, 8 Hz.
- Measured value difference too small
- Max. programming time (15 min.) exceeded.

6.5 Electronic lock

Lock or unlock the buttons

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

7 Operation

- Check whether the unit operates correctly.
- > The LED lights when the switching output is switched.

8 Maintenance, repair and disposal

- Keep the front pane of the sensor free from soiling.
- For cleaning do not use any solvents or cleaning agents which could damage the plastic material.
- Do not try to open the module enclosure. There are no user serviceable components inside.