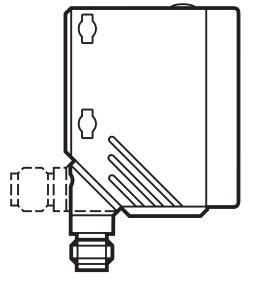


Operating instructions Retro-reflective sensor efectored 05P7xx



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

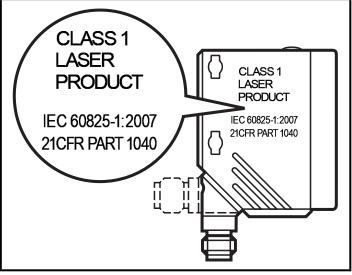
Caution - Use of controls or adjustments or procedures other than those specified herein may result in hazardous radiation exposure.



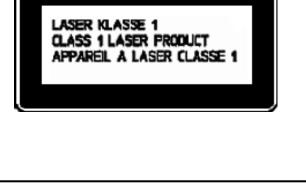
Visible laser light; CLASS 1 LASER PRODUCT. IEC 60825-1 : 2007

Complies with 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 2007.

#### Position of the product label



# Additional label

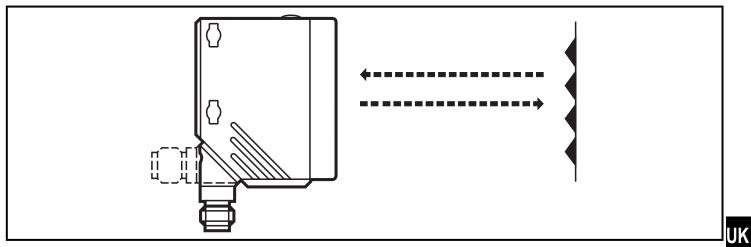


# **3 Functions and features**

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 15 m (on prismatic reflector Ø 80 (E20005)).

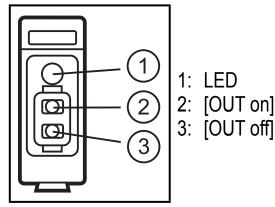
# 4 Installation



- ► Fit the prismatic reflector or the reflective tape behind the object to be detected.
- ► Align the retro-reflective sensor to it and secure it to a bracket.

Maximum range is only possible with precise alignment.

# **5 Operating and display elements**

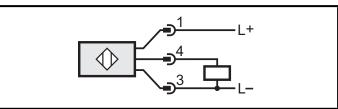


## **6 Electrical connection**

- 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:

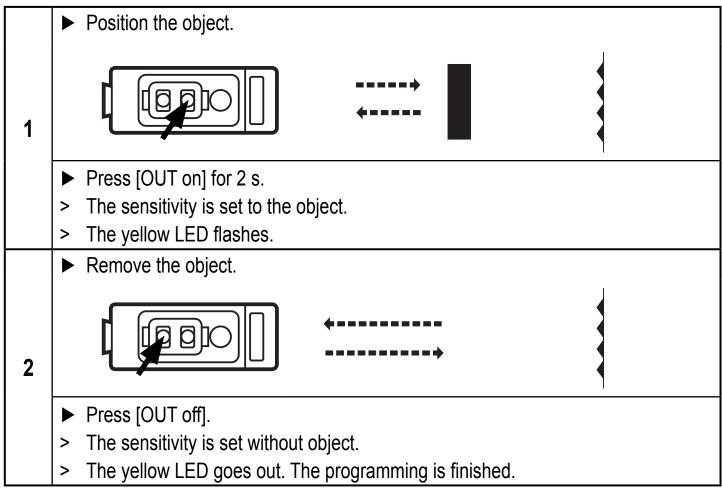
#### DC PNP



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

# 7 Settings

#### 7.1 The sensor is to switch when the object is detected



## 7.2 The sensor is not to switch when the object is detected

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

The setting can also be carried out first without object (step 1) and then with object (step 2).

#### 7.3 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].

#### 7.4 Programming unsuccessful

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

## 7.5 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.

# 8 Operation

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

## 9 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.

Technical data and further information at www.ifm.com  $\rightarrow$  Select your country  $\rightarrow$  Data sheet direct: