

ifm electronic



Operating instructions
Retro-reflective sensor

efector200[®]

OGP7xx

UK

704075 / 02 06 / 2011



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.

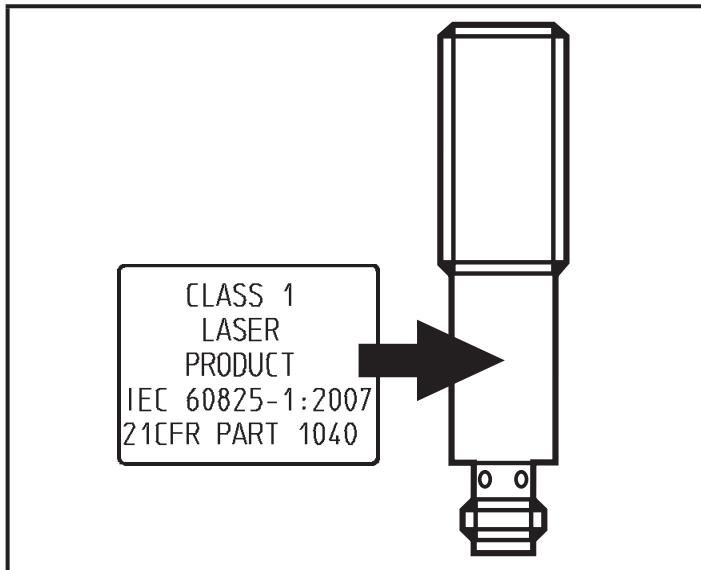


Visible laser light; CLASS 1 LASER PRODUCT.

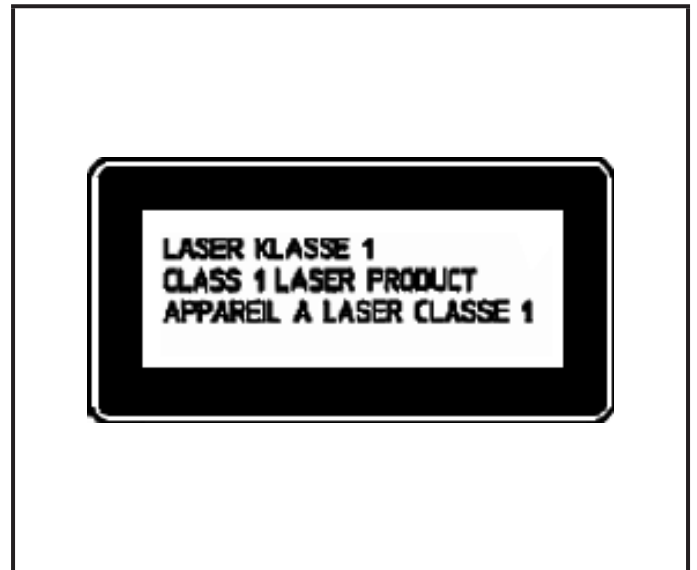
IEC 60825-1 : 2007

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

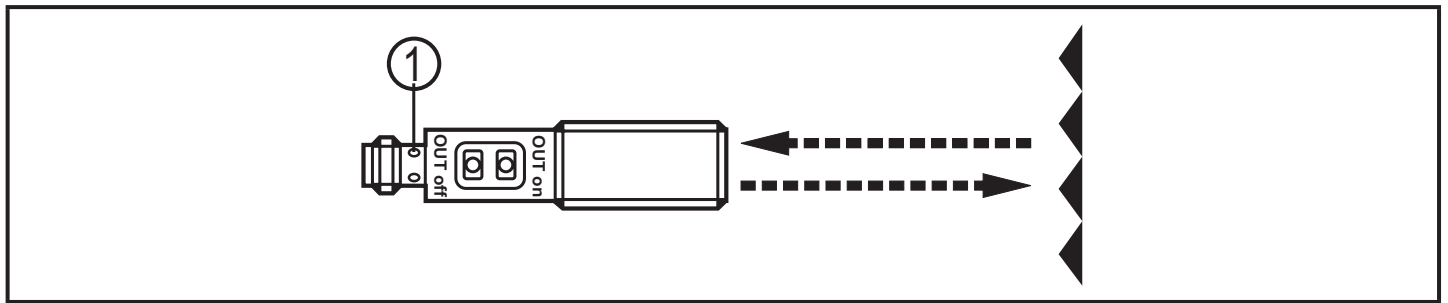


3 Functions and features

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: www.ifm.com → Select your country → Data sheet direct: e.g. OGE700.

4 Installation



1: LED

- ▶ 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.

UK

Maximum range is only possible with precise alignment.

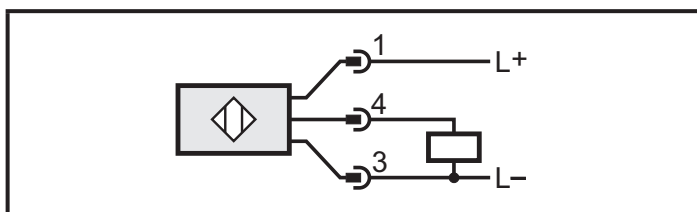
5 Electrical connection



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



pin 1 = L+ (10...36 V DC)

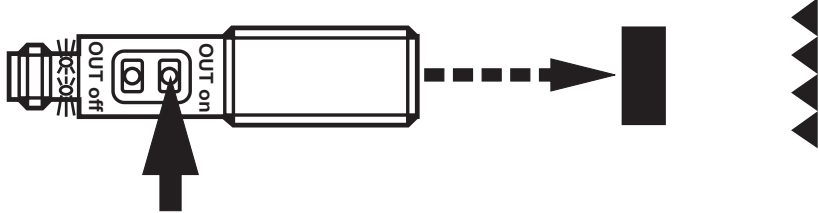
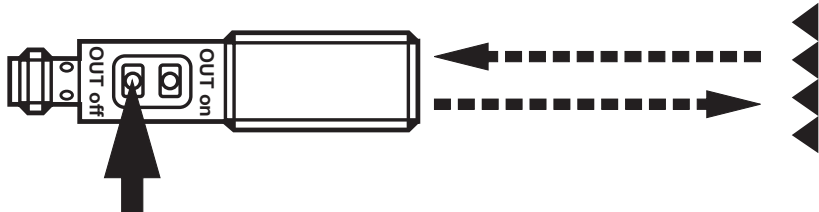
pin 3 = L-

pin 4 = load (200 mA)

(pin 2 = not connected)

6 Settings

6.1 The sensor is to switch when the object is detected

1	<p>► Position the object.</p> 
	<p>► Press [OUT on] for 2 s. > The LED flashes.</p>
2	<p>► Remove the object.</p> 
	<p>► Press [OUT off]. > The LED goes out. The programming is finished.</p>

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 yellow LED flashes quickly (8 Hz).
- Insufficient difference in measurements.
- 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.

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