

ifm electronic



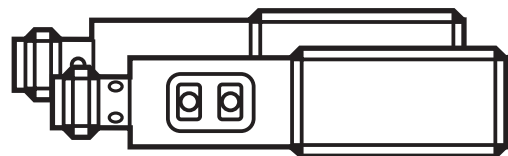
Operating instructions
Through-beam sensor

efector200[®]

OGE7xx / OGS7xx

UK

704074 / 03 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.

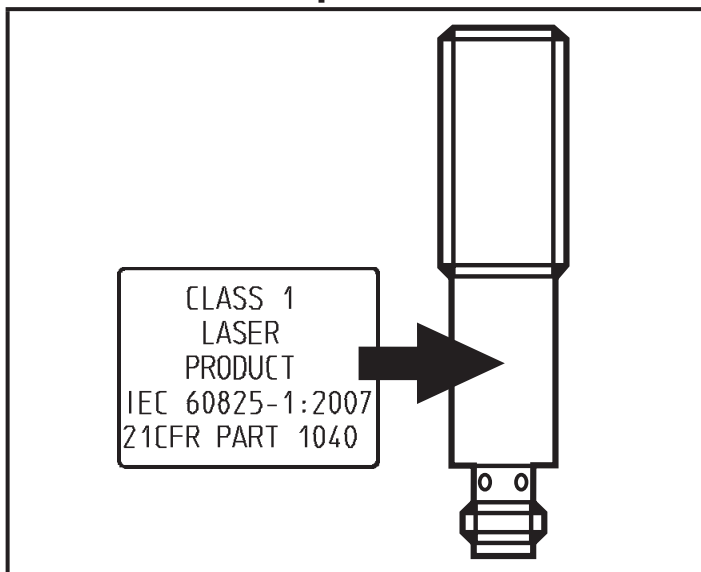


Visible laser light; CLASS 1 LASER PRODUCT.

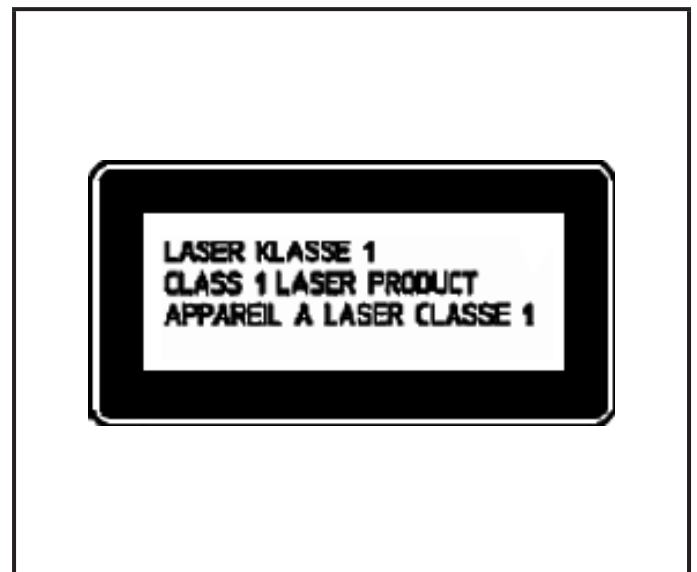
IEC 60825-1 : 2007

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

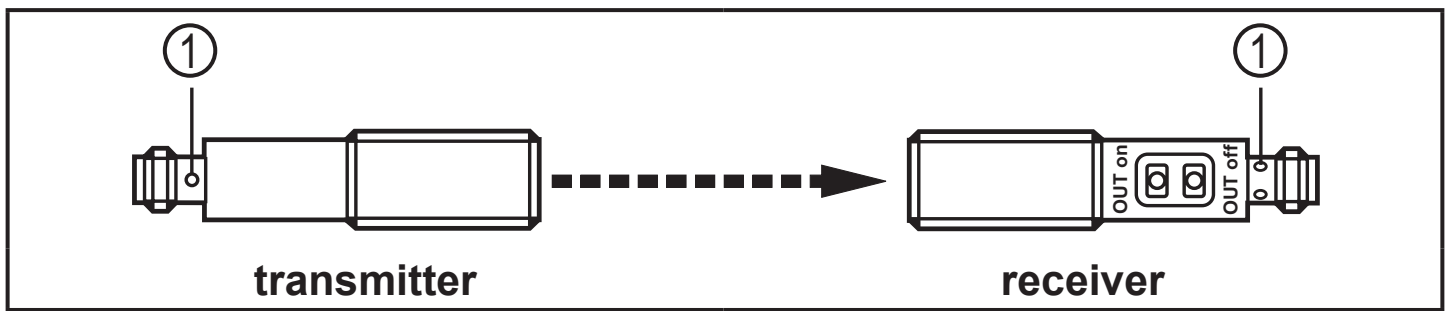


3 Functions and features

The through-beam 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

- ▶ Secure the receiver (OGE7xx) to a bracket.
- ▶ Align the transmitter (OGS7xx) to the receiver and secure it in the same way.

Maximum range is only possible with precise alignment.

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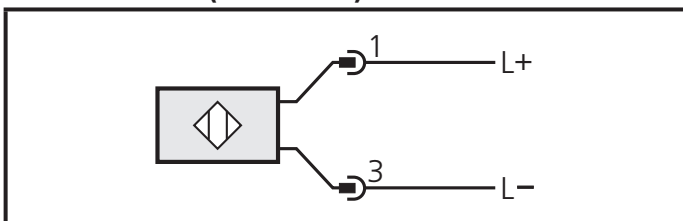
5 Electrical connection



The unit must be connected by a qualified electrician.

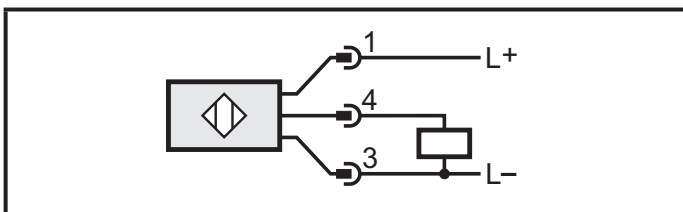
- ▶ The national and international regulations for the installation of electrical equipment must be adhered to.
 - ▶ Voltage supply according to EN 50178.
- ▶ Disconnect power.
- ▶ Connect the unit as follows:

Transmitter (OGS7xx) DC



pin 1 = L+ (10...36 V DC)
 (pin 2: not used)
 pin 3 = L-
 (pin 4: not used)

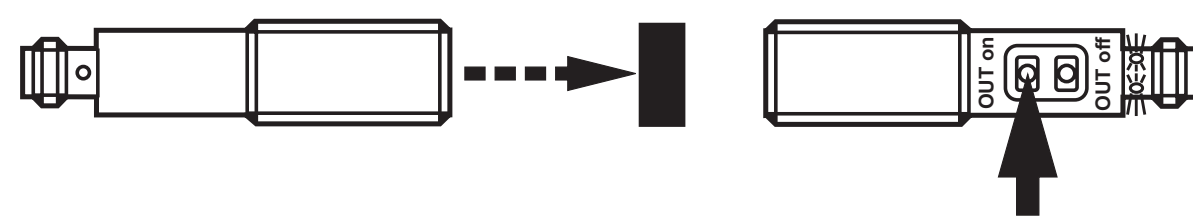
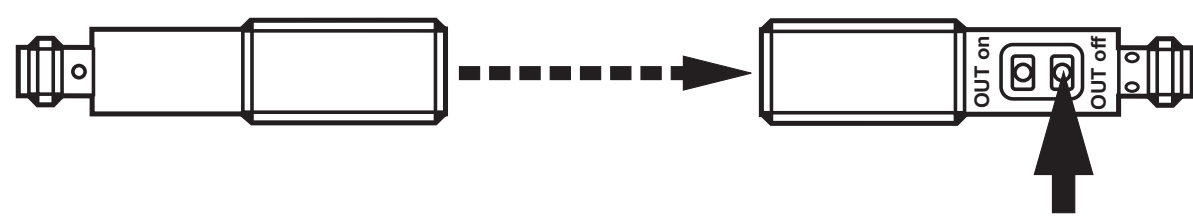
Receiver (OGE7xx) DC PNP



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

6 Settings

6.1 The sensor is to switch when the object is detected

1	<p>▶ Position the object.</p> 
	<p>▶ Press [OUT on]. > 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

- ▶ Interrupt the light beam.

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 the two buttons simultaneously for 10 s.
- > Acknowledgement is indicated by a change of the LED status.

7 Operation

- ▶ Check whether the units operate correctly.
- > Transmitter: The green LED is lit when the sensor is ready for operation.
- > Receiver: The yellow LED is lit when the output is switched.

UK

8 Maintenance, repair and disposal

- ▶ Keep the front panes of the sensors 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: