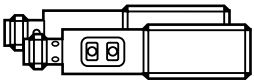
Operating instructions
Through-beam sensor

UK

OGE7xx / OGS7xx



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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.

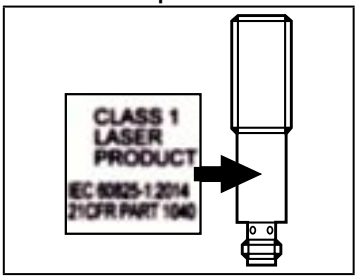
2 Safety instructions

According to the cULus approval

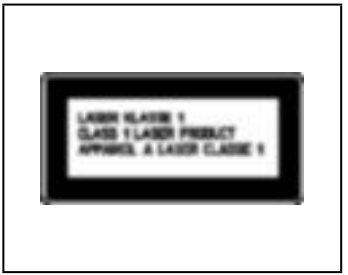
Caution - Use of controls or adjustments or procedures other than those specified herein may result in hazardous radiation exposure.

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



Additional label

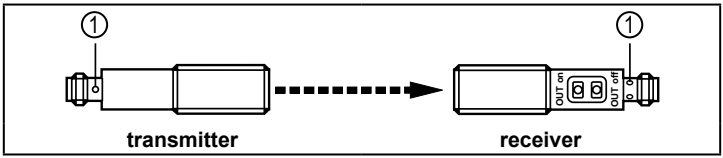


3 Functions and features

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.

UK

5 Electrical connection

The unit must be connected by a qualified electrician.

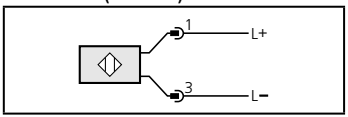
▶ The national and international regulations for the installation of electrical equipment must be adhered to.

▶ Voltage supply according to EN 50178.

▶ Disconnect power.

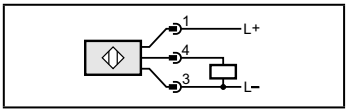
▶ Connect the unit as follows:

Transmitter (OGS7xx) DC



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

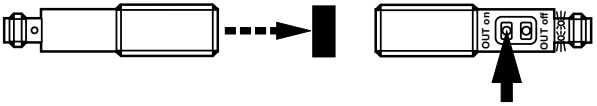
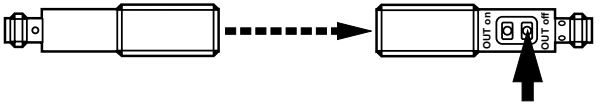
Receiver (OGE7xx) DC PNP



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	▶ Position the object. 
	▶ Press [OUT on]. > The LED flashes.
2	▶ Remove the object. 
	▶ Press [OUT off]. > The LED goes out. The programming is finished.

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.

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.