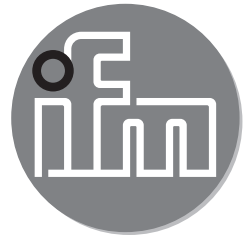


ifm electronic



Operating instructions
Through-beam sensor

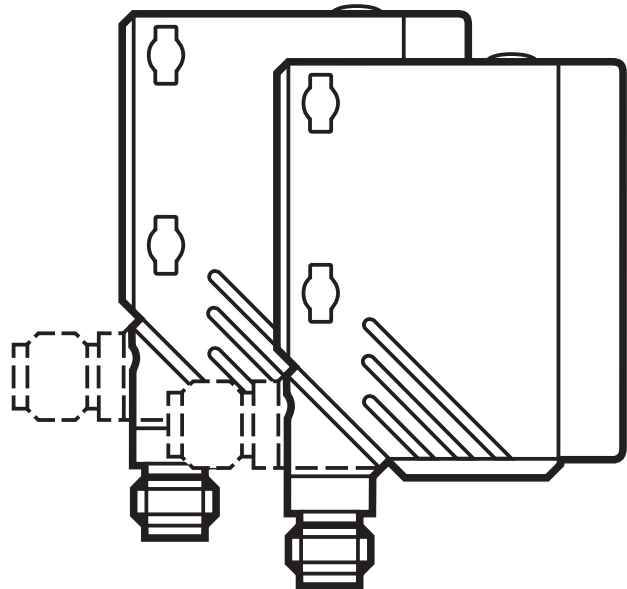
efector200[®]

O5E7xx

O5S7xx

UK

704482 / 00 10 / 2008



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.

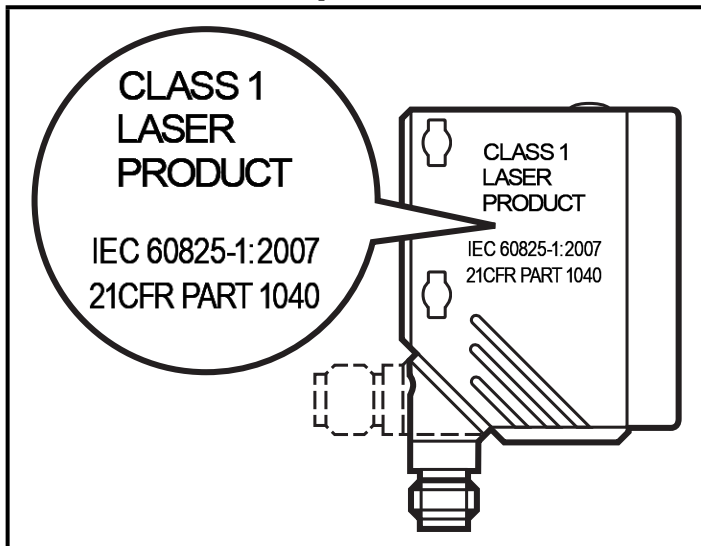


Visible laser light; CLASS 1 LASER PRODUCT.

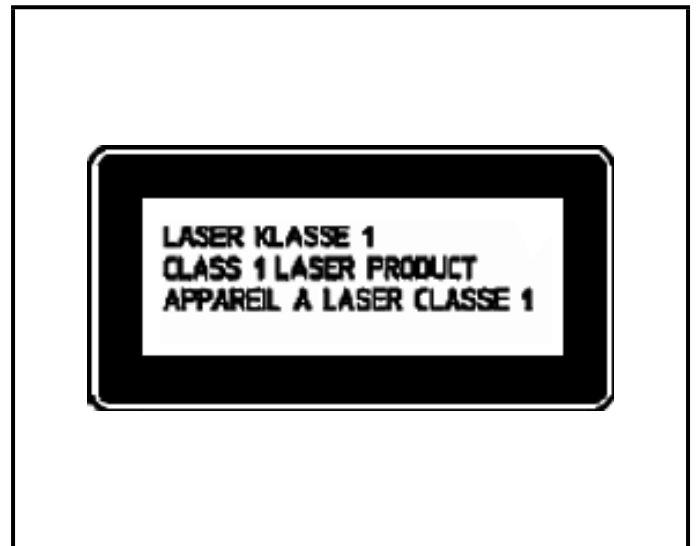
IEC 60825-1 : 2007

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

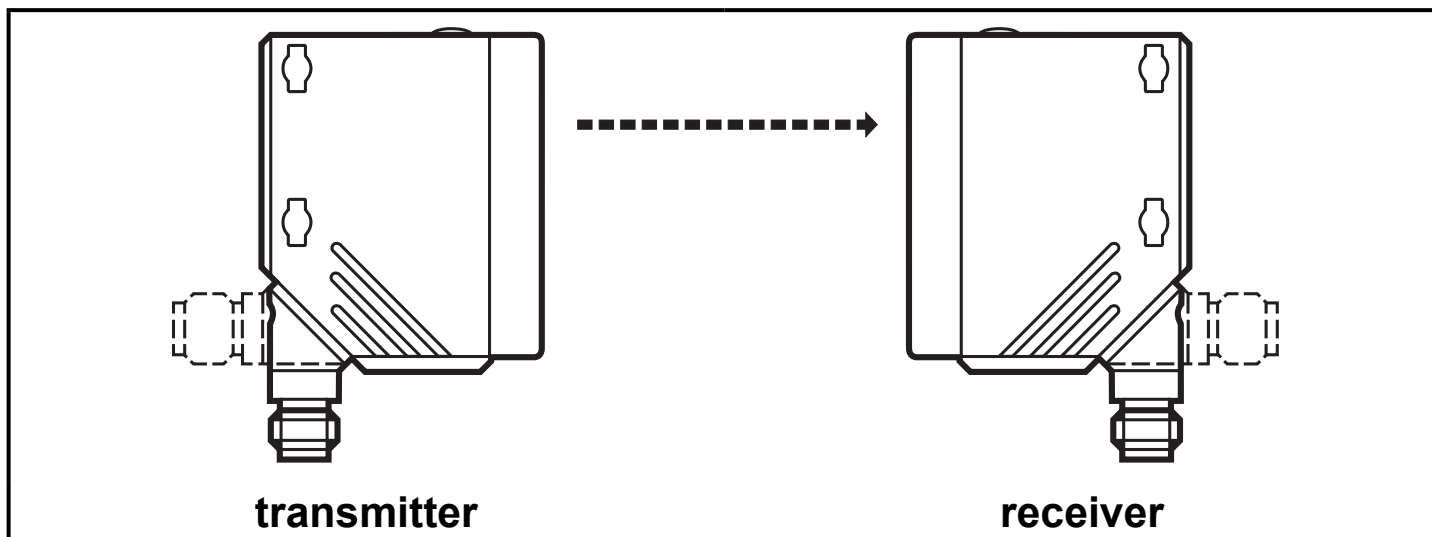


3 Functions and features

The through-beam sensor detects objects and materials without contact and indicates their presence by a switching signal.

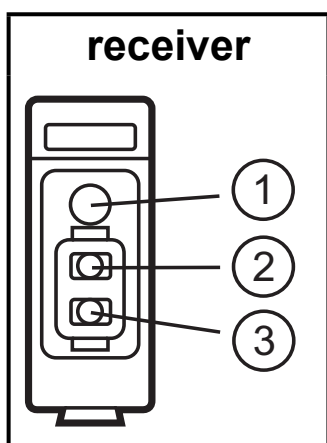
Range 60 m.

4 Installation



- ▶ Install the receiver (O5E...) and secure it to a bracket.
 - ▶ Align the transmitter (O5S...) to the receiver and fix it.
- Maximum range is only possible with precise alignment.

5 Operating and display elements



- 1: LED
2: [OUT on]
3: [OUT off]

6 Electrical connection

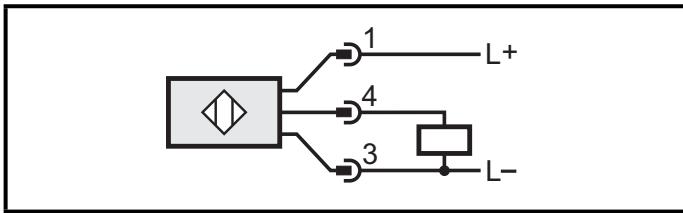


The unit must be connected by a qualified electrician.

- ▶ The national and international regulations for the installation of electrical equipment must be adhered to.
- ▶ Voltage supply according to EN 50178.

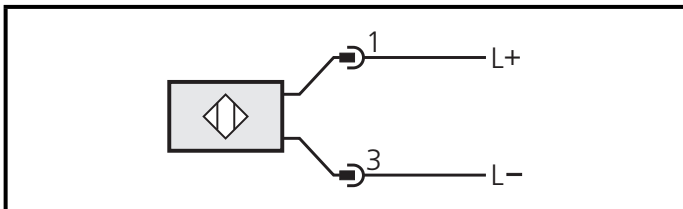
- ▶ Disconnect power.
- ▶ Connect the unit as follows:

Receiver DC PNP



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

Transmitter DC



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

7 Settings

7.1 The sensor is to switch when the object is detected

1	<ul style="list-style-type: none"> ▶ Position the object <p style="text-align: center;">receiver transmitter</p>
	<ul style="list-style-type: none"> ▶ Press [OUT on] for 2 s. <ul style="list-style-type: none"> > The sensitivity is set to the object. > The yellow LED flashes.
2	<ul style="list-style-type: none"> ▶ Remove the object <p style="text-align: center;">receiver transmitter</p>
	<ul style="list-style-type: none"> ▶ Press [OUT off]. <ul style="list-style-type: none"> > The sensitivity is set without object. > The yellow LED goes out. The programming is finished.

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 units operate correctly.
- > Receiver: The LED lights when the switching output is switched.

9 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: