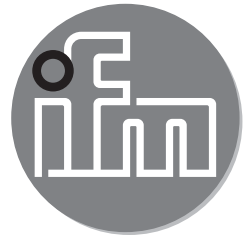


ifm electronic



Operating instructions
Diffuse reflection sensor

efector200[®]

OGT1xx

UK

OGT100 / 00 11 / 2009



1 Preliminary note

1.1 Symbols used

► Instruction

> Reaction, result

→ Cross-reference



Important note

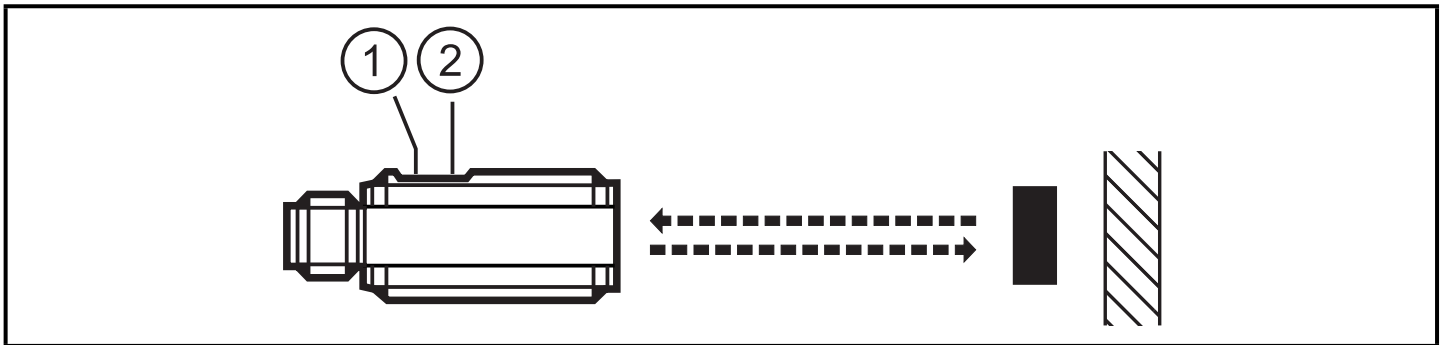
Non-compliance can result in malfunctions or interference.

2 Functions and features

The diffuse reflection sensor detects objects and materials without contact and indicates their presence by a switching signal.

Range: → packaging or data sheet.

3 Installation



1: LED

2: setting potentiometer

- Align the diffuse reflection sensor to the object to be detected.
- Secure it to a bracket.

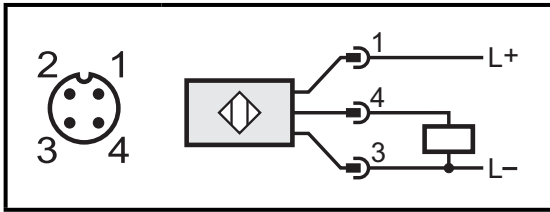
4 Electrical connection



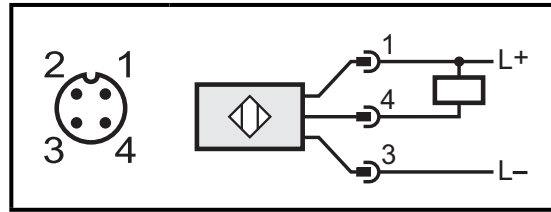
The unit must be connected by a qualified electrician.

- The national and international regulations for the installation of electrical equipment must be adhered to.
 - Ensure a voltage supply according to EN 50178, SELV, PELV.
- Disconnect power.
- Connect the unit as follows:

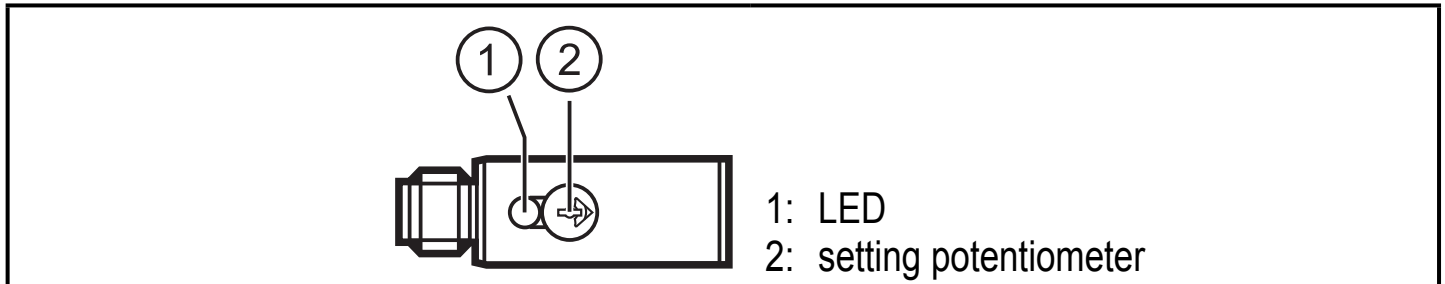
DC PNP



DC NPN



Settings



- ▶ Set the setting potentiometer to the minimum range.
- ▶ Position the object to be detected in the detection zone.
- ▶ Increase the range until the LED lights (= minimum value; object detected).
- ▶ Remove the object from the detection zone.
- > LED goes out.
- ▶ Increase the range until the LED lights (= maximum value; background detected).
- ▶ Set the range to the middle position between minimum value and maximum value.

5 Operation

- ▶ Check whether the unit operates correctly.
 - Dark-on switching units: the output is switched / the yellow LED is lit when no object is detected.
 - Light-on switching units: the output is switched / the yellow LED is lit when an object is detected.

6 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.

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

