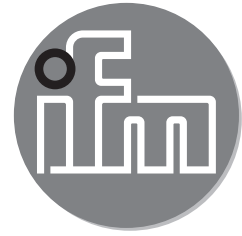


ifm electronic



Operating instructions
Diffuse reflection sensor
with background suppression

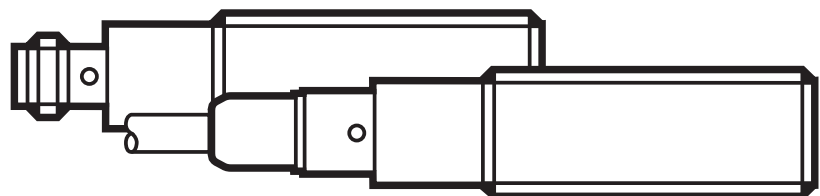
efector200[®]

OGH3xx

OGH5xx

UK


704460 / 01 06 / 2010



1 Preliminary note

1.1 Symbols used

- ▶ Instruction
- > Reaction, result
- Cross-reference

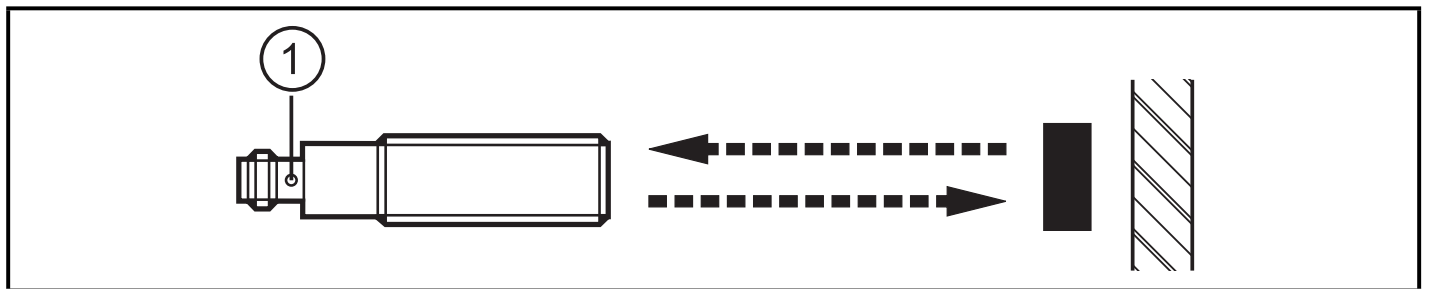
 Important note
Non-compliance can result in malfunctions or interference.

2 Functions and features

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

Range: (→ type label).

3 Installation



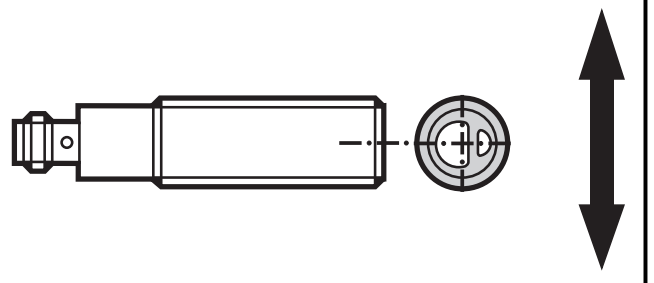
1: LED

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

Note:

The objects to be detected are to move transversely to the lens of the sensor.

- ▶ In case of other directions of movement it should be tested before whether safe switching is guaranteed.



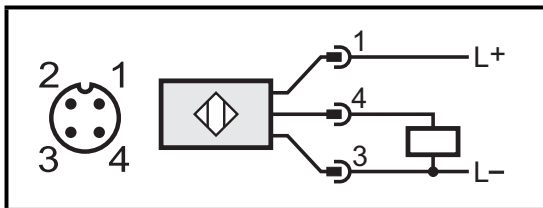
4 Electrical connection



The unit must be connected by a qualified electrician.

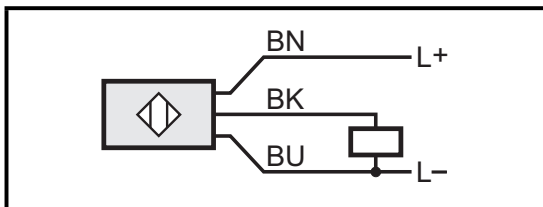
- ▶ The national and international regulations for the installation of electrical equipment must be adhered to.
- ▶ Ensure voltage supply to EN 50178.
- ▶ Disconnect power.
- ▶ Connect the unit as follows:

Connector



pin 1 = L+
(pin 2 = not connected)
pin 3 = L-
pin 4 = load

Cable



BN = L+
BU = L-
BK = load

Core colours: BN = brown, BU = blue, BK = black

5 Operation

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

6 Maintenance, repair and disposal

- ▶ Keep the front lens 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