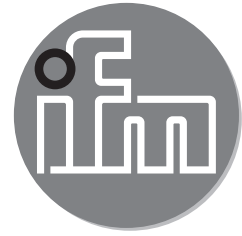


ifm electronic



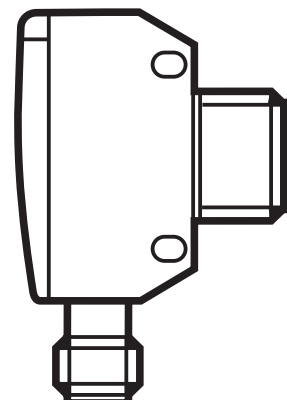
Operating instructions
Diffuse reflection sensor with
background suppression

efector200[®]

OGH38x

UK

7200012 / 00 11 / 2011

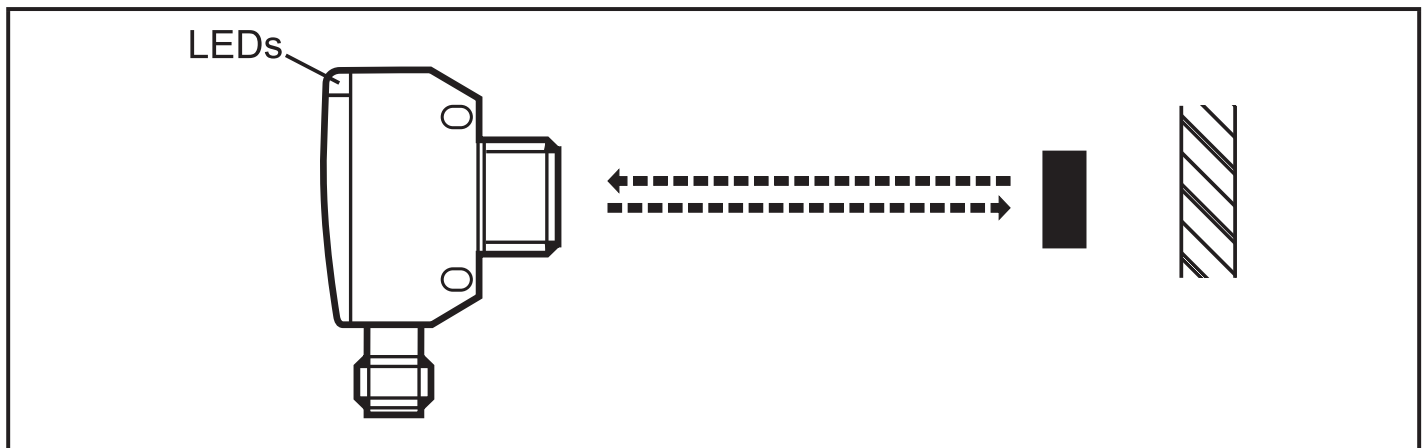


1 Functions and features

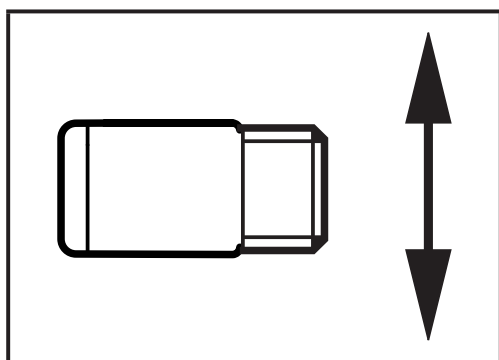
The diffuse reflection sensor detects objects and materials without contact and indicates their presence by a switching signal.

For the range see the type label (referred to white paper 200 x 200 mm, 90 % remission).

2 Installation



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



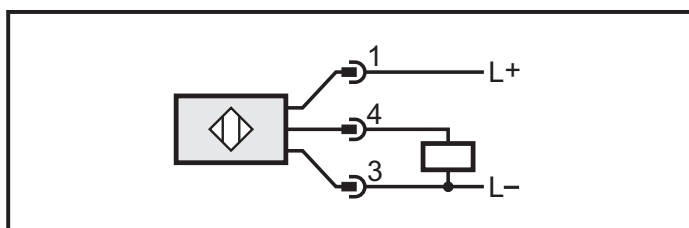
The objects to be detected are to move transversally to the lens of the sensor. In case of other directions of movement it should be tested before whether the switching function is guaranteed.

3 Electrical connection



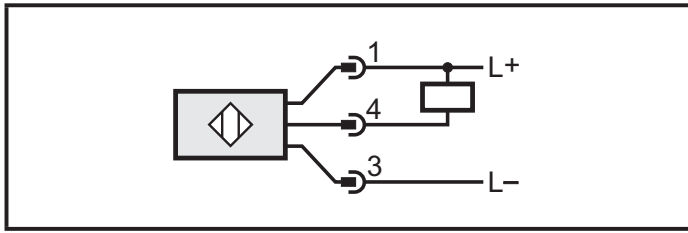
- Disconnect power.
- Connect the unit as follows.

PNP



pin 1 = L+ (10...30 V DC)
pin 3 = L-
pin 4 = load (PNP, 200 mA)
(pin 2 = not connected)

NPN



pin 1 = L+ (10...30 V DC)
pin 3 = L-
pin 4 = load (NPN, 200 mA)
(pin 2 = not connected)

4 Operation

Check whether the sensor operates correctly.

- The yellow LED is lit when the switching output is switched.
- The green LED is lit when the sensor is ready for operation.

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5 Maintenance

- Keep the lens of the sensor free from soiling.
- For cleaning do not use any solvents or cleaning agents which could damage the plastic material.