

ifm electronic



Operating instructions  
Diffuse reflection sensor with  
background suppression

**efector200**

**O7H2xx**

UK

O7H200 / 01 11 / 2010



# 1 Preliminary note

## 1.1 Symbols used

▶ Instruction

> Reaction, result

→ Cross-reference



Important note

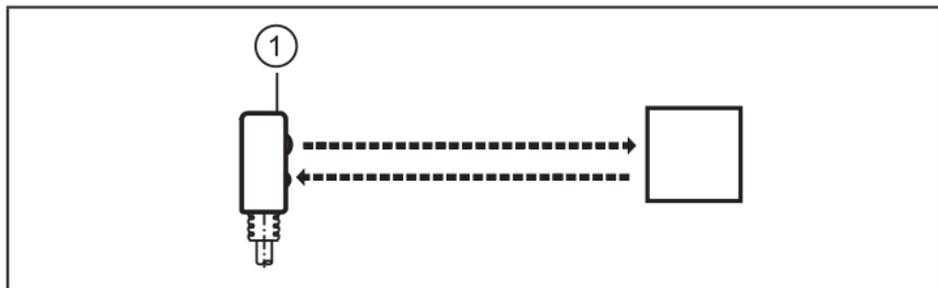
Non-compliance can result in malfunctions or interference.

## 2 Functions and features

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

Range: → packaging or data sheet.

## 3 Installation



1: LED

▶ Align the diffuse reflection sensor to the object to be detected.

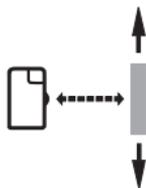
▶ Secure it to a bracket.

Maximum range only with accurate alignment.

### 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.



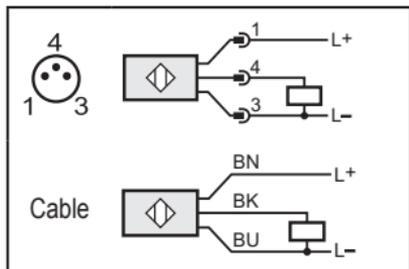
## 4 Electrical connection



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, SELV, PELV.
- ▶ Disconnect power.
- ▶ Connect the unit as follows:

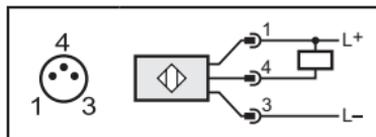
### DC PNP



Core colours:

BN (brown), BU (blue), BK (black).

### DC NPN



## 5 Operation

- ▶ Check whether the unit operates correctly.
- Light-on switching units (O7H-HPKG): The output is switched / the yellow LED is lit when an object is detected.
- Dark-on switching units (O7H-DPKG): the output is switched / the yellow LED is lit when no 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](http://www.ifm.com)