

CE

Operating instructions Retro-reflective sensor

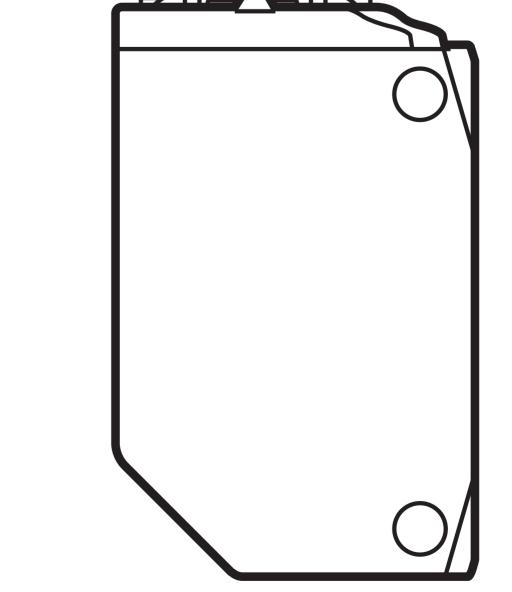
efector200

O6P3

2015



O6P3IO / 00 01 / 2



1 Preliminary note

1.1 Symbols used

- Instruction
- Reaction, result >
- Designation of pushbuttons, buttons or indications [...]
- **Cross-reference** \rightarrow
 - Important note
- Non-compliance can result in malfunctions or interference.

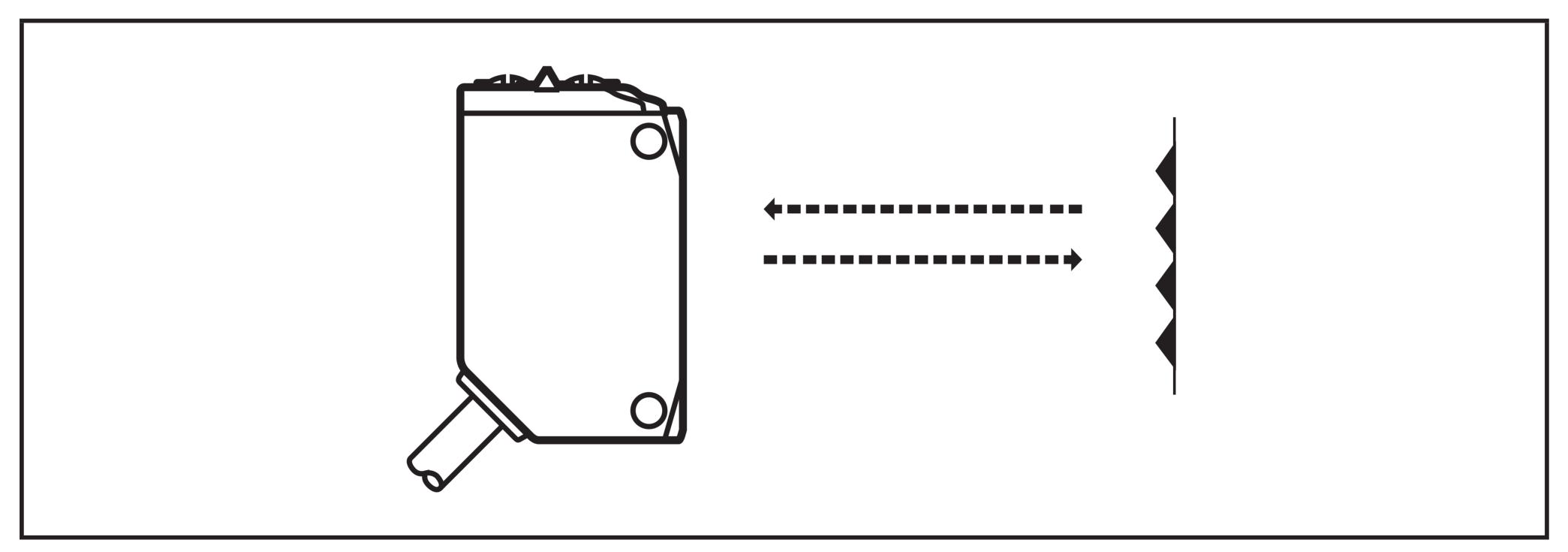
2 Functions and features

In conjunction with a prismatic reflector or reflective tape the retro-reflective sensor detects objects and materials without contact and indicates their presence by

a switching signal.

3 Installation

2

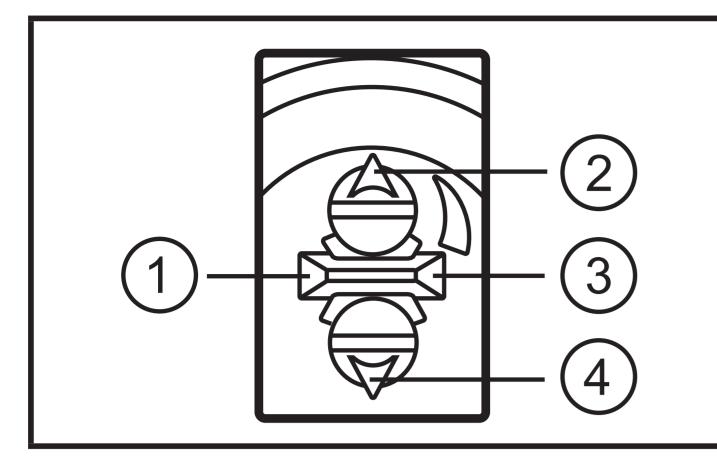


Fit the prismatic reflector or the reflective tape behind the object to be detected.

Align the retro-reflective sensor to it and secure it to a bracket.

Maximum range only with accurate alignment.

4 Operating and display elements



- 1: LED yellow switching output active
- 2: Setting potentiometer "sensitivity"
- 3: LED green operation, stability indication
- 4: Selector "output function"

4.1 Stability indication

The green LED is lit when the supply voltage is applied and there is sufficient excess gain. Under these conditions the sensor receives a stable signal.

stable signal	switch point	stable signal

Light-on mode					
LED green	on	off	off	on	
LED yellow	on	on	off	off	
Dark-on mode					
LED green	on	off	off	on	
LED yellow	off	off	on	on	

3

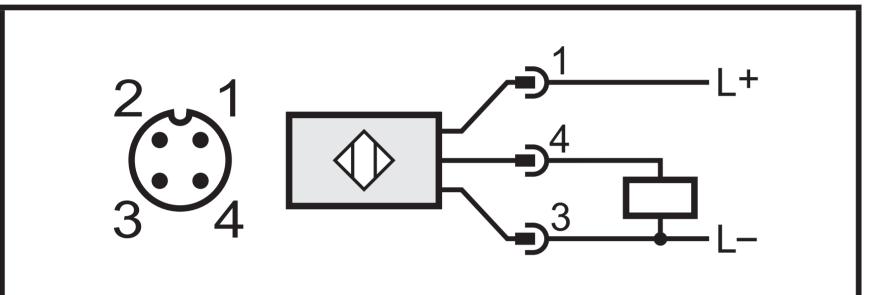
UK

5 Electrical connection

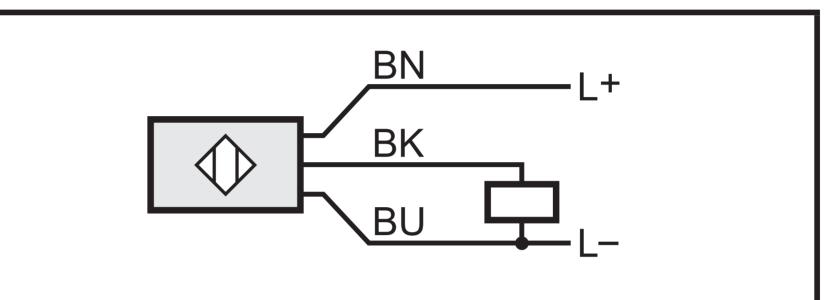
- The unit must be connected by a qualified electrician.
 - The national and international regulations for the installation of electrical equipment must be adhered to.
 - Ensure voltage supply to EN 50178.
- Disconnect power.
- Connect the unit as follows:

5.1 PNP

Connector M12 pigtail

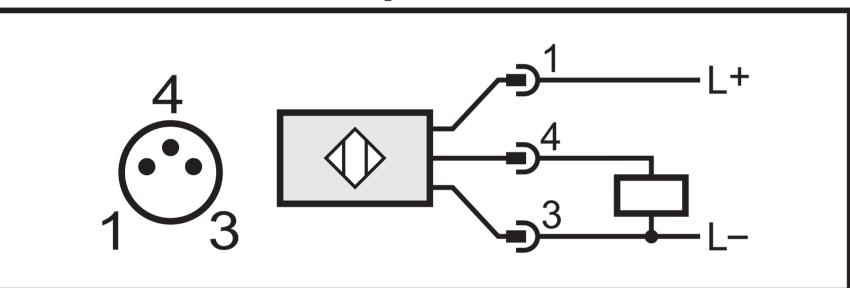


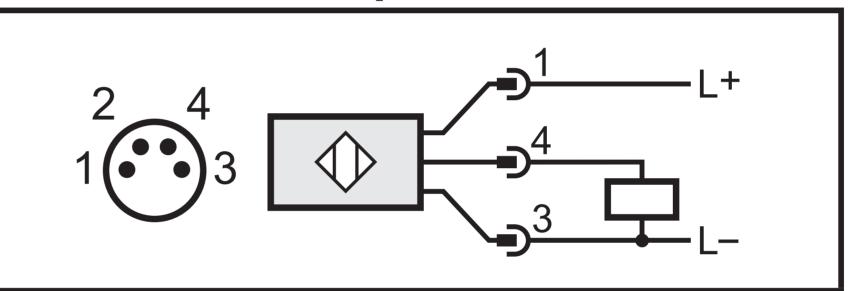
Cable *



Connector M8 3-pin

Connector M8 4-pin

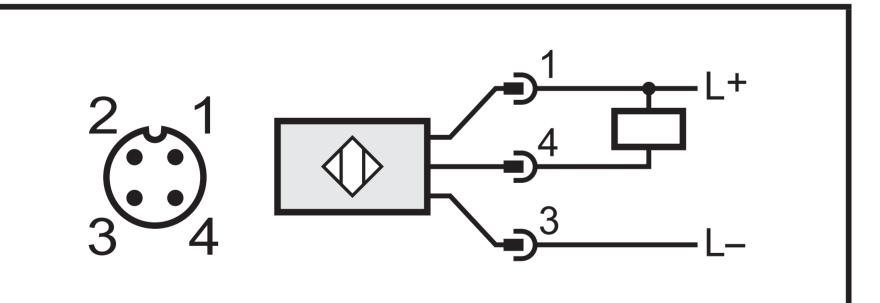




* Core colours: BN = brown, BU = blue, BK = black

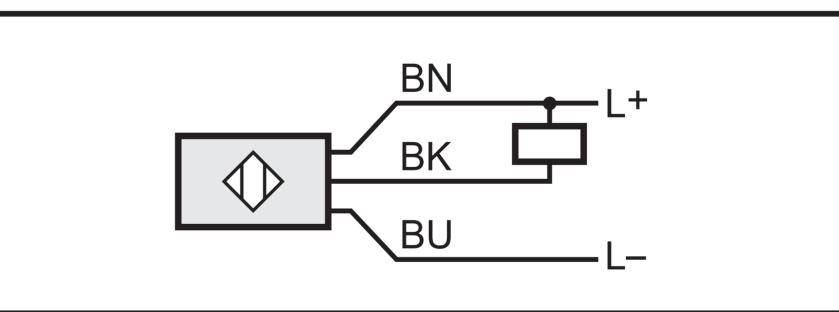
5.2 NPN

Connector M12 pigtail

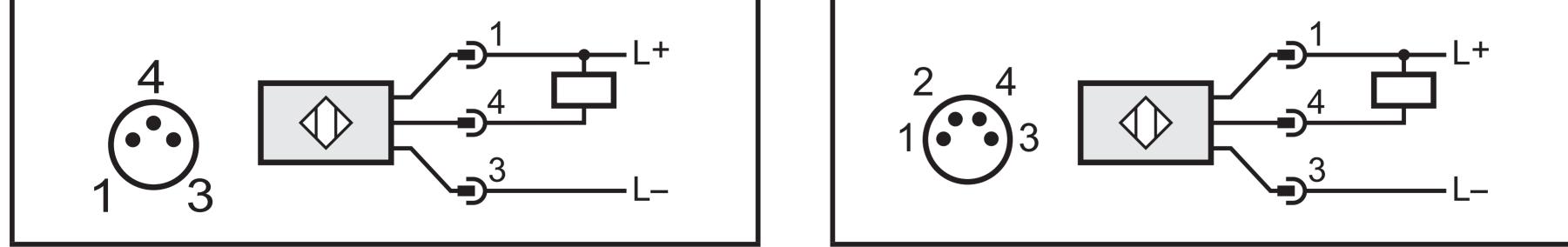


Connector M8 3-pin

Cable *



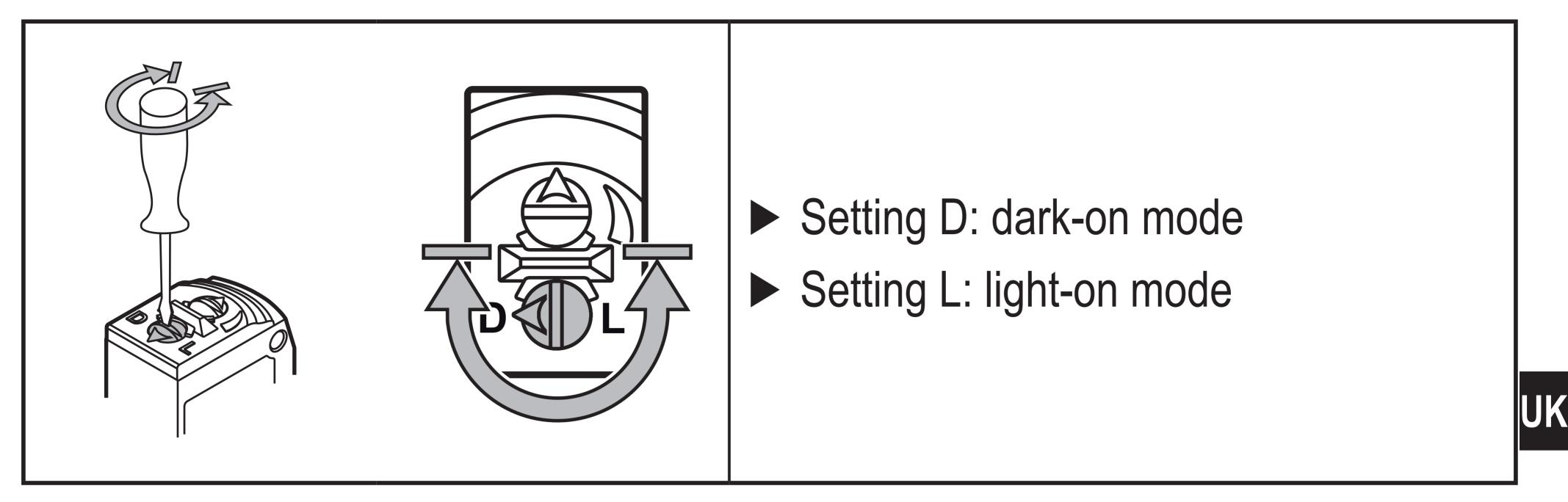
Connector M8 4-pin



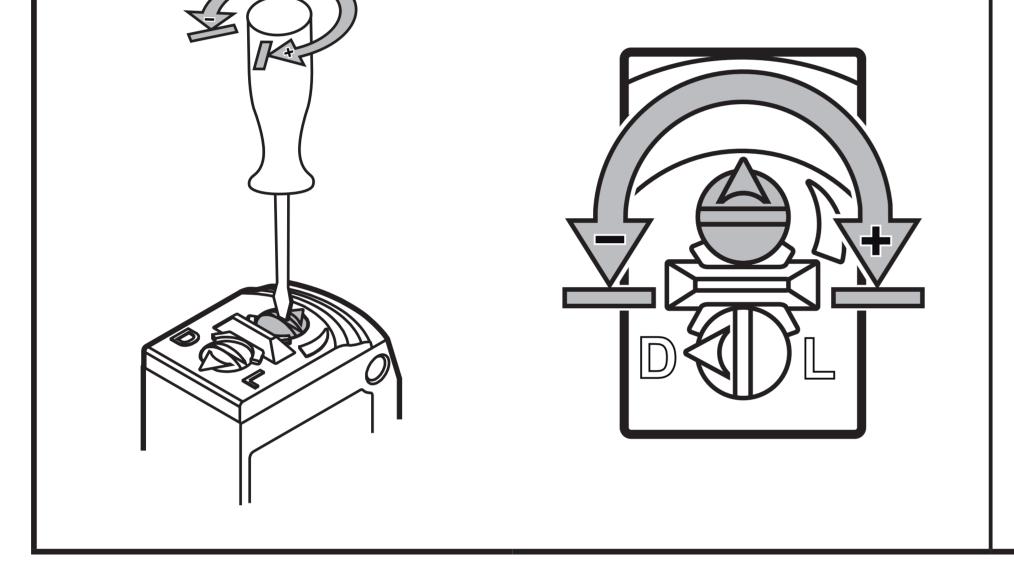
* Core colours: BN = brown, BU = blue, BK = black

6 Settings

6.1 Set the output function



6.2 Set the sensitivity



- Increase sensitivity: turn the setting screw of the potentiometer clockwise.
- Decrease sensitivity: turn the setting screw of the potentiometer anti-clockwise.

7 **Operation**

- Check whether the unit operates correctly.
- > The green LED is lit when the sensor is ready for operation.
- Dark-on mode: the output is switched / the yellow LED is lit when an object is > detected.
- Light-on mode: the output is switched / the yellow LED is lit when no object is > detected.

8 IO-Link

8.1 General information

This unit has an IO-Link communication interface which requires an IO-Linkcapable module (IO-Link master) for operation.

The IO-Link interface enables direct access to the sensor values and parameters and provides the possibility to set the parameters of the unit during operation. In addition communication is possible via a point-to-point connection with a USB adapter cable.

You will find more detailed information about IO-Link at www.ifm.com/uk/io-link.

8.2 Device-specific information

You will find the IODDs necessary for the configuration of the IO-Link unit and detailed information about sensor values, diagnostic information and parameters in the overview table at www.ifm.com/uk/io-link.

8.3 Parameter setting tools

You will find all necessary information about the required IO-Link hardware and software (e.g. ifm LINERECORDER SENSOR ZGS210) at www.ifm.com/uk/io-link.

9 Maintenance, repair, disposal

- Keep the lens of the sensor free from soiling.
- For cleaning do not use any solvents or cleaning agents which could damage the plastic parts.
- After use dispose of the unit in an environmentally friendly way in accordance with the applicable national regulations.
- Faulty sensors must only be repaired by the manufacturer.

Technical data and further information at unter www.ifm.com