$C\hspace{-0.3em}\epsilon$
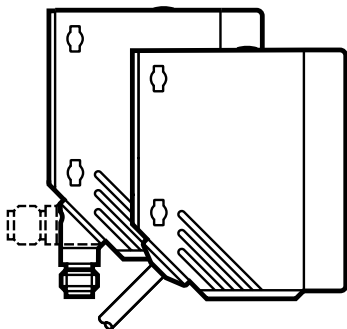
Operating instructions
Through-beam sensor

UK

O4E5xx / O4S5xx

1 Preliminary note

1.1 Symbols used

▶   Instruction

>   Reaction, result

[…]   Designation of pushbuttons, buttons or indications
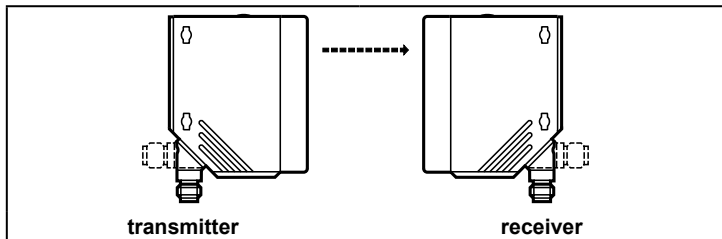
→   Cross-reference

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

2 Functions and features

The through-beam sensor detects objects and materials without contact and indicates their presence by a switching signal.
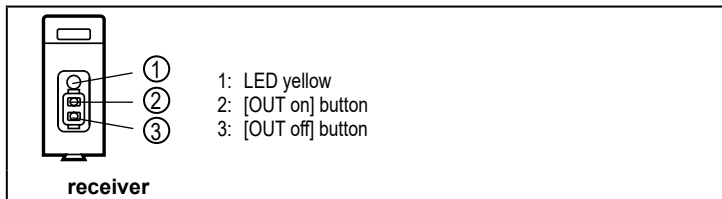
Range: → type label.

3 Installation

| transmitter | receiver |

▶ Install the receiver (O4E...) and secure it to a bracket.

▶ Align the transmitter (O4S ...) to the receiver and secure it in the same way.

Maximum range only with accurate alignment.

4 Operating and display elements

1: LED yellow
2: [OUT on] button
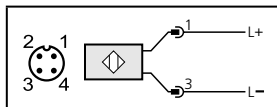3: [OUT off] button

receiver

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.
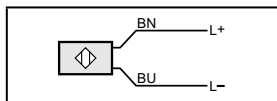
▶ Ensure voltage supply to EN 50178.

▶ Disconnect power.

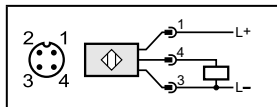▶ Connect the unit as follows:

Transmitter connector

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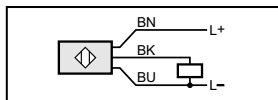pin 3 = L-
(pin 4: not connected)

Transmitter cable *

BN = L+
BU = L-

Receiver connector

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

Receiver cable *

BN = L+
BU = L-
BK = load

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

6 Setting

6.1 Sensitivity setting

The sensor is to switch when the object is detected

1	▶ Position the object. receiver transmitter ▶ Press [OUT on] for 2 s. > The sensitivity is set to the object. The yellow LED flashes.
2	▶ Remove the object. receiver transmitter ▶ Press [OUT off]. > The sensitivity is set without object. > The yellow LED goes out. The setting operation is completed.

The sensor is not to switch when the object is detected

▶ Position the object (see figure 1) and press [OUT off].

▶ Remove the object (see figure 2) and press [OUT on].

You can carry out the setting first without object and then with object.

6.2 Setting of maximum sensitivity

▶ Interrupt the light beam.

The sensor is to switch when the object is detected.

▶ First press [OUT on], then [OUT off].

The sensor is to switch when the object is not detected

► First press [OUT off], then [OUT on].

6.3 Setting unsuccessful

> The LED flashes quickly, 8 Hz.

> The sensor returns to the normal operating mode with unchanged values.

Possible causes

• Insufficient difference in measurements

• Max. programming time of 15 min. exceeded

6.4 Electronic lock

The unit can be locked electronically to prevent unauthorised setting. On delivery the unit is not locked.

► Press [OUT on] and [OUT off] simultaneously for 10 s. > Acknowledgement is indicated by a change of the LED status. ► To unlock repeat this step.	 **receiver**

7 Operation

► Check whether the unit operates correctly.

> The green LED (transmitter) is lit when the sensor is ready for operation.

> The output is switched when the object is present. The yellow LED (receiver) is lit.

8 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.