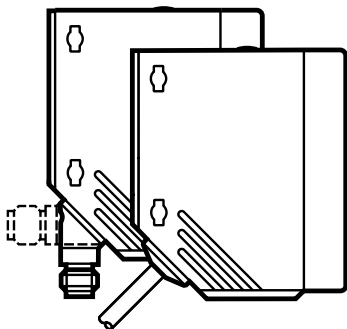




# Operating instructions Through-beam sensor

UK

**O4E5xx / O4S5xx**



# 1 Preliminary note

## 1.1 Symbols used

- Instruction
- > Reaction, result
- [...] Designation of pushbuttons, buttons or indications
- Cross-reference



Important note

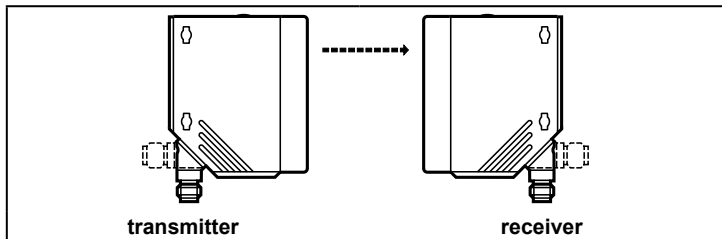
Non-compliance can result in malfunctions or interference.

## 2 Functions and features

The through-beam sensor detects objects and materials without contact and indicates their presence by a switching signal.

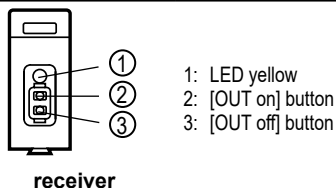
Range: → type label.

## 3 Installation



- 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



## 5 Electrical connection

UK



The unit must be connected by a qualified electrician.

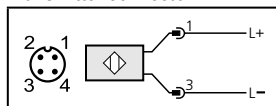
► The national and international regulations for the installation of electrical equipment must be adhered to.

► Ensure voltage supply to EN 50178.

► Disconnect power.

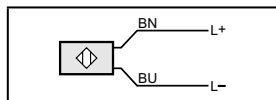
► Connect the unit as follows:

### Transmitter connector



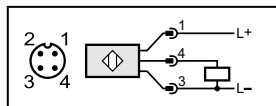
pin 1 = L+  
(pin 2: not connected)  
pin 3 = L-  
(pin 4: not connected)

### Transmitter cable \*



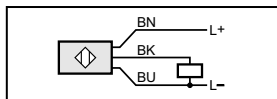
BN = L+  
BU = L-

### Receiver connector



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

### Receiver cable \*




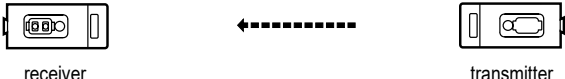
BN = L+  
BU = L-  
BK = load

\* 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	<p>► Position the object.</p>  <p>receiver</p> <p>transmitter</p> <p>► Press [OUT on] for 2 s. &gt; The sensitivity is set to the object. The yellow LED flashes.</p>
2	<p>► Remove the object.</p>  <p>receiver</p> <p>transmitter</p> <p>► Press [OUT off]. &gt; The sensitivity is set without object. &gt; The yellow LED goes out. The setting operation is completed.</p>

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.

<ul style="list-style-type: none"><li>▶ Press [OUT on] and [OUT off] simultaneously for 10 s.</li><li>&gt; Acknowledgement is indicated by a change of the LED status.</li><li>▶ To unlock repeat this step.</li></ul>	 <b>receiver</b>
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## 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.