



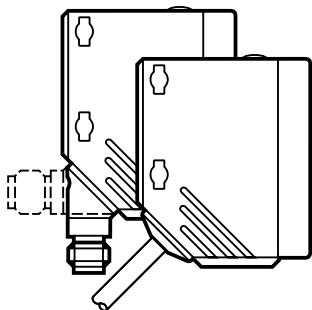
CE

Operating instructions  
Through-beam sensor

UK

**O5E5xx / O5S5xx**

11472536 / 00 07 / 2022



# 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 Safety instructions

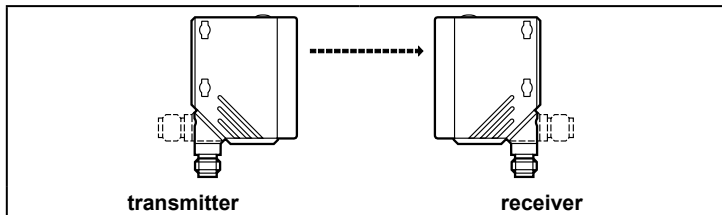
- The device described is a subcomponent for integration into a system.
  - The manufacturer of the system is responsible for the safety of the system.
  - The system manufacturer undertakes to perform a risk assessment and to create a documentation in accordance with legal and normative requirements to be provided to the operator and user of the system. This documentation must contain all necessary information and safety instructions for the operator, the user and, if applicable, for any service personnel authorised by the manufacturer of the system.
- Read this document before setting up the product and keep it during the entire service life.
- The product must be suitable for the corresponding applications and environmental conditions without any restrictions.
- Only use the product for its intended purpose (→ Functions and features).
- If the operating instructions or the technical data are not adhered to, personal injury and/or damage to property may occur.
- The manufacturer assumes no liability or warranty for any consequences caused by tampering with the product or incorrect use by the operator.
- Installation, electrical connection, set-up, operation and maintenance of the unit must be carried out by qualified personnel authorised by the machine operator.
- Protect units and cables against damage.

### 3 Functions and features

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

Range: → type label.

### 4 Installation

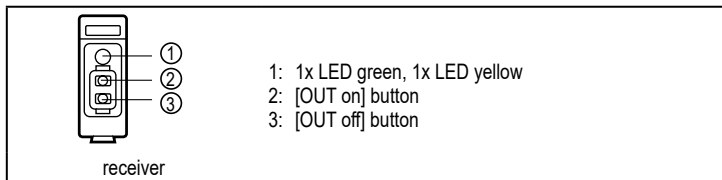


► Install the receiver (O5E...) and secure it to a bracket.

► Align the transmitter (O5S...) to the receiver and fix it.

Maximum range only with accurate alignment.

### 5 Operating and display elements



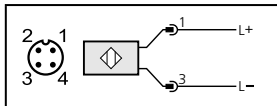
## 6 Electrical connection



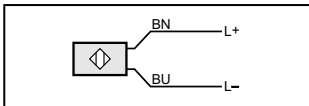
The unit must be connected by a qualified electrician.

- ▶ 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

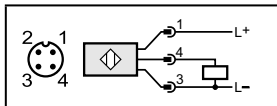


### Transmitter cable \*

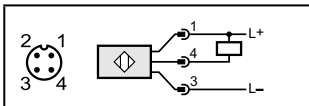


### Receiver connector

#### PNP

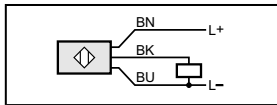


#### NPN

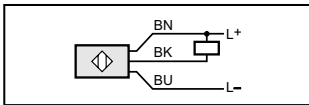


### Receiver cable \*

#### PNP



#### NPN





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

## 7 Settings

### 7.1 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.

### 7.2 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].

### 7.3 Setting unsuccessful


- > The yellow 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

### 7.4 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> |  <p>receiver</p> |
|--|---|



receiver

## 8 Operation

- ▶ Check whether the unit operates correctly.
- > The green LED is lit when the sensor is ready for operation.
- > The output is switched when the object is present. The yellow LED (receiver) is lit.

## 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.