

OS / OE12 - Series

Through-beam sensors

Installation and environment

Coatings on the optics (glass) impair the function and reduce the range. The installation should therefore be carried out in such a way that as little dust as possible is deposited and no liquid can get onto them during operation. It must also be ensured that they are accessible for cleaning.

From time to time, the optics should be cleaned with a soft cloth moistened with alcohol or soapy water.

Cable

The PVC connection cable of the pre-wired cable devices is not suitable for environments containing oil or solvents and in applications where the cable is frequently moved.

In such cases, the use of plug devices with an oil-resistant **Sensorflex** cable socket is recommended.

Installation and alignment

1. First mount the receiver (OE) at the desired position so that the optics point in the direction of the monitoring range.
2. Then mount the transmitter (OS) so that it is aligned on the receiver.
3. If the light beam is interrupted, the switching output of the receiver must now switch safely.

Notes:

Two nuts per device are included for fastening the devices.

The maximum tightening torque of 20Nm must not be overrun!

Setting

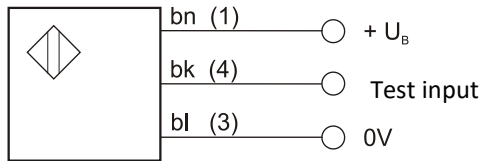
When the light beam is interrupted, the switching output switches and the yellow switching state LED lights up.

Safe operation is ensured when the green function LED lights up when the light path is free and goes out when the switching output is switched on (yellow LED lights up).

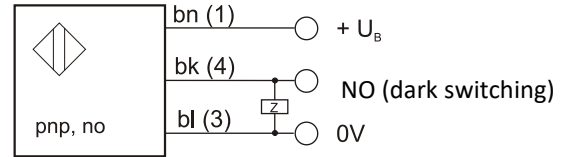
If the green LED does not light up when the light path is clear, either the distance between the devices is too great or the optics are dirty.

Electrical connection

OS120006 / OS120026



OE120106 / OE120126



bn = brown - brown - brun
 bk = black - black - noire
 bl = blue - blue - bleu

Terminal marking of the cable socket in brackets

Important note: Do not use cable boxes with LED to connect the transmitters.

Technical data

| Article no. Transmitter | Article no. Receiver | Voltage | Output (receiver) | Transmit-Element | Nominal Range | Connection |
|-------------------------|----------------------|---------------|-------------------|------------------|---------------|--------------------|
| OS120026 | OE120126 | 10 ... 35V DC | pnp, no, (200mA) | LED, red | 10m | M12-connector 3pin |
| OS120006 | OE120106 | 10 ... 35V DC | pnp, no, (200mA) | LED, red | 10m | 2m PVC cable |

Safety Notice:

In case of direct impact on personal safety, the application of these products is prohibited.