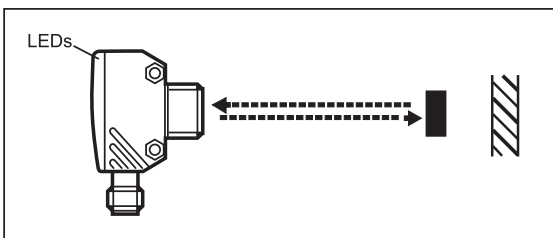


Diffuse reflection sensor with background suppression

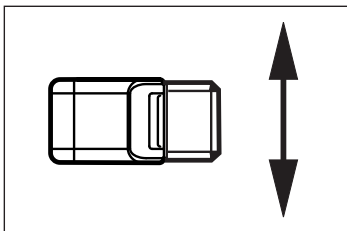
1 Functions and features

The diffuse reflection sensor detects objects and materials without contact and indicates their presence by a switching signal. For the range see the type label (referred to white paper 200 x 200 mm, 90% remission).

2 Installation



- ▶ Align the diffuse reflection sensor to the object to be detected and secure it to a bracket.



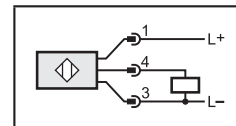
The objects to be detected are to move transversally to the lens of the sensor. In case of other directions of movement it should be tested for operation of the switching function.

3 Electrical connection



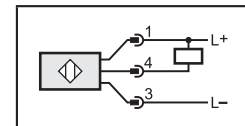
- ▶ Disconnect power.
- ▶ Connect the unit as follows.

PNP



Pin 1 - Brown = L+ (10...30 V DC)
Pin 3 - Blue = L-
Pin 4 - Black = load (PNP,
200 mA max)
(Pin 2 - White = not connected)

NPN



Pin 1 - Brown = L+ (10...30 V DC)
Pin 3 - Blue = L-
Pin 4 - Black = load (NPN,
200 mA max)
(Pin 2 - White = not connected)

4 Operation

Check whether the sensor operates correctly.

- The yellow LED is lit when the switching output is switched.
- The green LED is lit when the sensor is powered up.

5 Maintenance

- ▶ Keep the lens of the sensor free from soiling.
- ▶ For cleaning do not use any solvents or cleaning agents which could damage the plastic materials (PMMA - Polymethyl methacrylate, LCP - Liquid Crystal Polymer, PEI - Polyether imide).