

OT150176

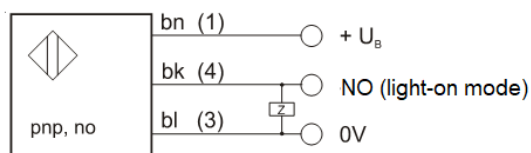
Diffuse reflection sensor

Adjustment:

1. First, the diffuse reflection sensor OT150176 has to be aligned to the object to be detected and to be mounted provisionally.
2. Adjusting the background area:
 The object to be detected must not be within the beam path! If the background is within the detection range (sn) of the sensor, turn the potentiometer clockwise until the yellow signal LED lights up.
 If the background is beyond the detection range, turn the potentiometer clockwise until you can hear a "click". This is the final stop. The complete adjustment range of the potentiometer is 12 turns.
 The green LED indicates if there is a reflection. It lights up if the background has a distance to the sensor of not more than 500mm.
3. Adjusting the foreground area:
 Therefore, the object has to be placed again in the beam path. Both Led have to light up. If the yellow LED doesn't light up, the object is too far away from the sensor and the distance has to be changed correspondingly!
 Then, turn the potentiometer counter-clockwise until the signal LED turns off. As this is a multiplex potentiometer, please count the turns.
4. Adjusting the switching point:
 The potentiometer has to be adjusted exactly between the previously determined positions.
5. The diffuse reflection sensor can be mounted now.

Note: Coatings on the optics affect the function. Please install the device in a way that preferably no dust can deposit or liquids can get to the optics.
 From time to time, clean the optics with a soft cloth, that is moistened with alcohol or soapy water.

Electrical connection



bn=brown, bk=black, bl=blue
 terminal markings of cable socket in brackets

Technical data

operating voltage	10 ... 35V DC
max. switch current	200mA
max. switching frequency	500Hz
switching distance	30 ... 150mm
ambient temperature	-25 ... +55°C
protection class	IP 65
connection	M8-connector, 3-pin

Safety warnings:

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!

Never use these articles in applications where the safety of a person depends on their functionality.