

OT430471 / OT430473

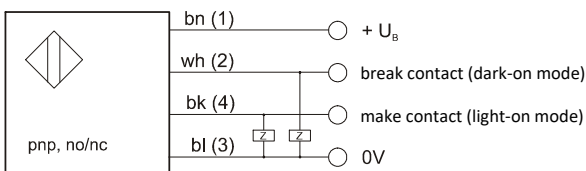
red light diffuse reflection sensor with background suppression

adjusting the sensor:

1. The sensor OT43 must first be aligned with the object to be detected so that it can be temporarily mounted.
2. Adjusting the background area:
When doing this, the object to be detected must not be in the path of the light beam. If the background is in the detection range (sn) of the sensor, the potentiometer must be turned clockwise until the yellow LED signal lights up.
If the background is outside the detection range, the potentiometer will have to be turned clockwise until a click is heard. This is as far it can be turned.
3. Adjusting the foreground area:
When doing this, the object to be detected must be in the beam path. The LED signal should light up. If it does not light up, the object is too far away from the sensor. Next turn the potentiometer counter-clockwise until the LED signal turns off. Because this is a multiplex potentiometer, count the turns if need be.
4. Setting the switching point:
Set the potentiometer at the mid-point exactly between the previously determined positions.
5. The diffuse reflection sensor can then finally be mounted. Therefore care must be taken that the maximum locking torque of 1Nm is not exceeded. Board breakages which lead to an irreparable destruction of the sensor can occur through restraints of the plastic housing.

Note: If the yellow LED blinks, the sensor is in an instable status. The optics should then be cleaned or the distance readjusted.

electric connection



bn= brown, wh=white, bk=black, bl=blue terminal marking of the cable socket in brackets