

OR120106 / OR120126

Retro-reflective sensors

Installation and environment

Coatings on the optics and on the reflector impair the function. 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 and reflector 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 a plug device with an ipf-Sensorflex cable socket is recommended.

Installation and alignment

1. Mount the reflector in the desired position.
2. Cover the reflector, e.g. with adhesive tape, so that only the center (about 25% of the surface) remains free.
3. Then align the device on the reflector and fasten it. Make sure that the reflector is at right angles to the line connecting it to the device. For optical reasons, maintain a minimum distance of approx. 20cm from the reflector!
4. If the light beam is interrupted, the device must now switch safely.
5. Remove the adhesive tape from the reflector.

Setting

When the light beam is interrupted, the switching output switches (dark switching) 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 at (yellow LED lights up).

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

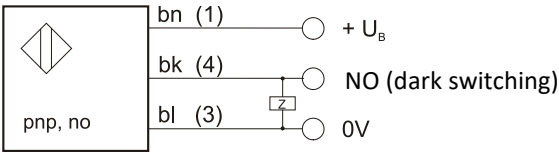
Note

The retro-reflective sensors of design 12 operate with a red light emitting diode. The devices are equipped with a polarizing filter, therefore reflectors suitable for polarized light must also be used.

The specified nominal ranges refer to a round reflector with 82mm diameter (AO000006 or AO000007). If smaller reflectors are used, only a smaller maximum range is possible.

Electrical connection

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bn=brown, bk=black, bl=blue
Terminal designation of the cable socket in brackets

Technical data

Article no.	Voltage	Power	Output	Optics	Transmit-Element	Nominal Range	Connection
OR120106	10 ... 35V DC	200mA	pnp, no	Straight	LED, red, polarizing filter	1,500mm	2m PVC cable
OR120126	10 ... 35V DC	200mA	pnp, no	Straight	LED, red, polarizing filter	1,500mm	M12-connector 3pin

Safety Notice:

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