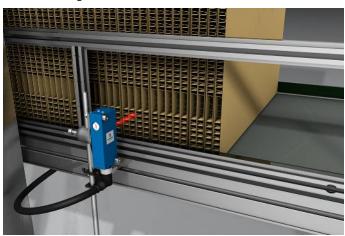
Reflex Sensor with Background Suppression





- Condition monitoring
- IO-Link 1.1
- Low switching distance deviation for black/white
- Reliably detect objects against any background

The reflex sensor with background suppression works with red light according to the angle measurement principle and is suitable for the detection of objects against any background. The sensor always has the same switching distance, regardless of the color, shape and surface of the objects. Minimal height differences can be detected with the sensors and, for example, various parts can be reliably differentiated from each other. The IO-Link interface can be used to configure the reflex sensors (PNP/NPN, NC/NO), as well as for reading out switching statuses.



Optical Data Range 200 mm Adjustable Range 45...200 mm Switching Hysteresis < 5 % Light Source Red Light Service Life (T = +25 °C) 100000 h 10000 Lux Max. Ambient Light Light Spot Diameter see Table 1 **Electrical Data** 10...30 V DC Supply Voltage 18...30 V DC Supply Voltage with IO-Link Current Consumption (Ub = 24 V) < 25 mA Switching Frequency 1000 Hz Switching Frequency (interference-free mode) 500 Hz Response Time 0,5 ms Response time (interference-free mode) 1 ms **Temperature Drift** < 5 % Temperature Range -40...60 °C Switching Output Voltage Drop < 2 V Switching Output/Switching Current 100 mA Short Circuit Protection yes **Reverse Polarity Protection** yes **Overload Protection** yes Interface IO-Link V1.1 **Protection Class** Ш **Mechanical Data** Setting Method Single-turn Housing Material Plastic IP67/IP68 Degree of Protection Connection M12 × 1; 4-pin Optic Cover PMMA Safety-relevant Data MTTFd (EN ISO 13849-1) 2069,6 a PNP NO/NC antivalent IO-Link Connection Diagram No. 215 A28 Control Panel No. Suitable Connection Equipment No. 2 Suitable Mounting Technology No. 350

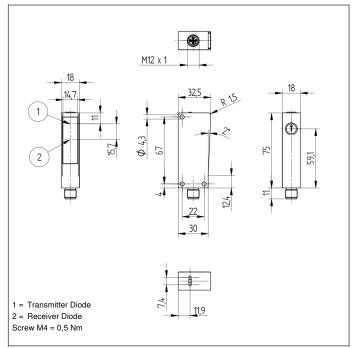
Complementary Products

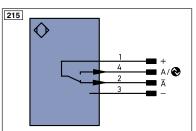
Dust Extraction Tube STAUBTUBUS-03 IO-Link Master Software

Photoelectronic Sensors

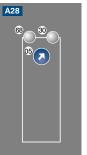
PNG // smart







Ctrl. Panel



05 = Switching Distance Adjuster

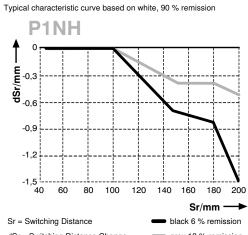
30 = Switching Status/Contamination Warning

68 = Supply Voltage Indicator

Table 1

| Detection Range | 45 mm | 100 mm | 200 mm |
|---------------------|-------|--------|--------|
| Light Spot Diameter | 7 mm | 6 mm | 5 mm |

Switching Distance Deviation





dSr = Switching Distance Change

grey 18 % remission