## Reflex Sensor with Background Suppression



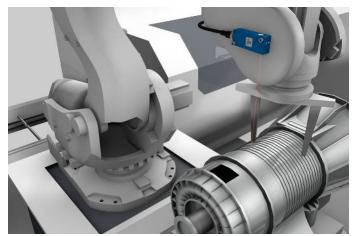
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LASER

- Collimated laser beam
- Condition monitoring
- IO-Link 1.1
- Laser class 1

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 400 mm Adjustable Range 65...400 mm Switching Hysteresis <1% Light Source Laser (red) 655 nm Wavelength Service Life (T = +25 $^{\circ}$ C) 100000 h Laser Class (EN 60825-1) 1 Max. Ambient Light 10000 Lux 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) < 15 mA Switching Frequency 600 Hz Switching Frequency (interference-free mode) 300 Hz **Response Time** 0,83 ms Response time (interference-free mode) 1,7 ms **Temperature Drift** < 2 % Temperature Range -25...60 °C Switching Output Voltage Drop < 2 V Switching Output/Switching Current 100 mA Short Circuit Protection yes **Reverse Polarity Protection** ves **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) 2096,76 a PNP NO/NC antivalent IO-Link Connection Diagram No. 215 A28 Control Panel No. Suitable Connection Equipment No. 2



**Complementary Products** 

Suitable Mounting Technology No.

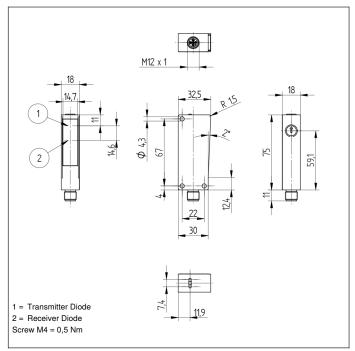
Dust Extraction Tube STAUBTUBUS-03 IO-Link Master Set Protective Housing Z1NS001 Software

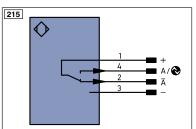
**Photoelectronic Sensors** 

# PNG//smart

350







# Ctrl. Panel



05 = Switching Distance Adjuster

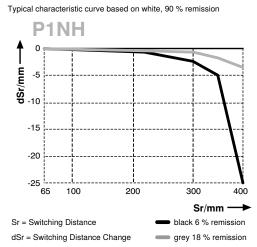
30 = Switching Status/Contamination Warning

68 = Supply Voltage Indicator

### Table 1

Detection Range	60 mm	200 mm	400 mm
Light Spot Diameter	3 mm	3 mm	3 mm

### **Switching Distance Deviation**



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