Reflex Sensor with Background Suppression

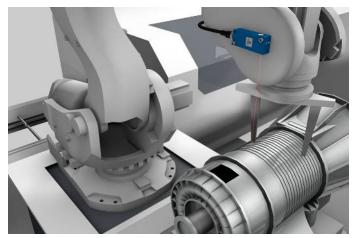


LASER

- Collimated laser beam
- Condition monitoring
- IO-Link 1.1
- Special coated optics

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.

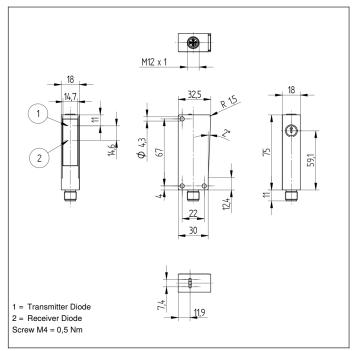
| Optical Data | |
|--|----------------|
| Range | 400 mm |
| Adjustable Range | 65400 mm |
| Switching Hysteresis | < 1 % |
| Light Source | Laser (red) |
| Wavelength | 655 nm |
| Service Life (T = +25 °C) | 100000 h |
| Laser Class (EN 60825-1) | 1 |
| Max. Ambient Light | 10000 Lux |
| Light Spot Diameter | see Table 1 |
| Electrical Data | |
| Supply Voltage | 1030 V DC |
| Supply Voltage with IO-Link | 1830 V DC |
| 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 | -2560 °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 | III |
| Mechanical Data | |
| Setting Method | Single-turn |
| Housing Material | Plastic |
| Degree of Protection | IP67/IP68 |
| 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 | Ū. |
| Connection Diagram No. | 215 |
| Control Panel No. | A28 |
| Suitable Connection Equipment No. | 2 |
| Suitable Mounting Technology No. | 350 |
| | |

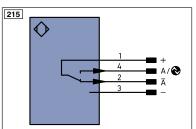


Complementary Products

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







Ctrl. Panel



05 = Switching Distance Adjuster

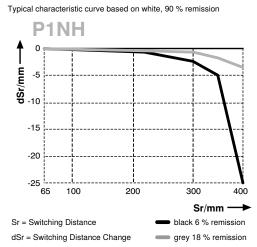
30 = Switching Status/Contamination Warning

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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