Reflex Sensor with Background Suppression



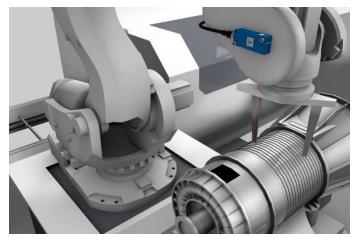
LASER

Ontinal Data

- 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	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
Contamination Output Voltage Drop	< 2 V
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
Contamination Output	
PNP NO	
IO-Link	
Connection Diagram No.	1027
Control Panel No.	A28
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	350

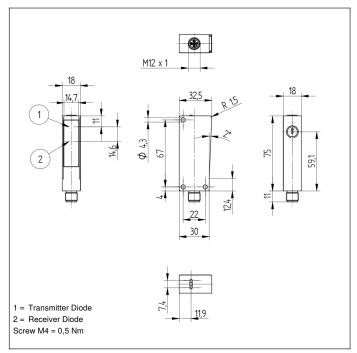


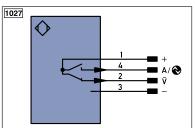
Complementary Products

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

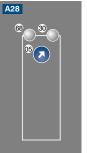
Photoelectronic Sensors







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

