Reflex Sensor with Background Suppression



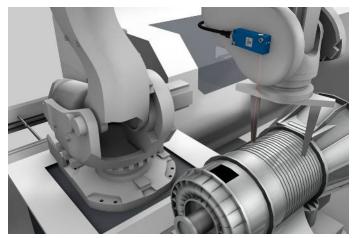
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LASER

- 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.

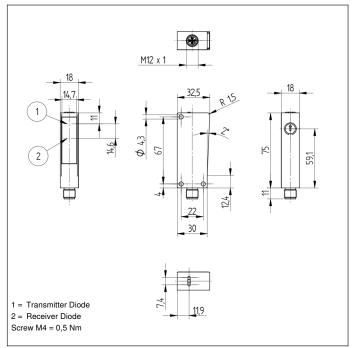
Optical Data		
Range	400 mm	
Adjustable Range	65400 mm	
Switching Hysteresis	< 1 %	
Light Source	Laser (red)	
Wavelength	655 nm	
Service Life (T = +25 °C)	100000 h	
Laser Class (EN 60825-1)	1	
Max. Ambient Light	10000 Lux	
Light Spot Diameter	see Table 1	
Electrical Data		
Supply Voltage	1030 V DC	
Supply 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	
NPN NO/NC antivalent		
IO-Link	Ō	
Connection Diagram No.	213	
Control Panel No.	A28	
Suitable Connection Equipment No.	2	
Suitable Mounting Technology No.	350	

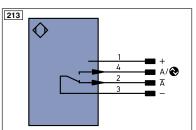


Complementary Products

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

