

Reflex Sensor with Background Suppression

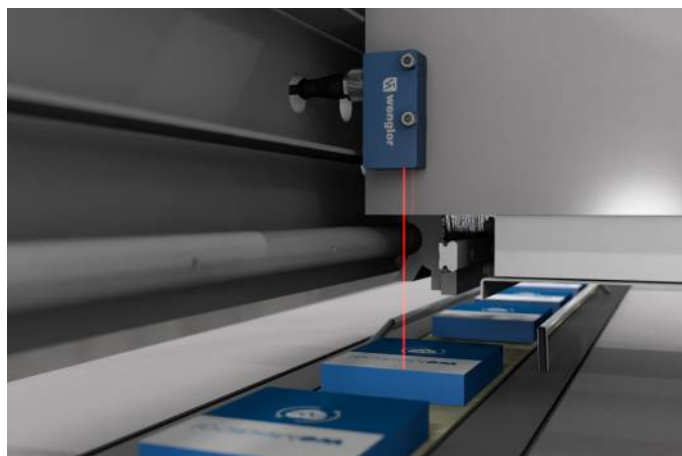
P1MH206

Part Number



- Data storage
- High-end
- IO-Link 1.1
- Teach-in, external teach-in
- Wireless settings via NFC

The reflex sensor with background suppression works with laser light according to the angle measurement principle. It has an IO-Link interface with a data storage function as well as additional configuration and diagnostic options. The interface can also be used to configure the sensors (PNP/NPN, NC/NO, switching distance, error output), as well as for reading out switching statuses and distance values.



Technical Data

Optical Data	
Range	200 mm
Setting Range	30...200 mm
Switching Hysteresis	< 10 %
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	15...30 V DC
Supply Voltage with IO-Link	18...30 V DC
Current Consumption (U _b = 24 V)	< 20 mA
Switching Frequency	1600 Hz
Switching frequency (2 switching outputs)	100 Hz
Response Time	0,31 ms
Response time (2 switching outputs)	5 ms
Temperature Drift	< 5 %
Temperature Range	-25...60 °C
Switching Output Voltage Drop	< 2 V
Switching Output/Switching Current	100 mA
Residual Current Switching Output	< 50 µA
Short Circuit and Overload Protection	yes
Reverse Polarity Protection	yes
Lockable	yes
Interface	IO-Link V1.1
Data Storage	yes
Protection Class	III
FDA Accession Number	2310152-001
Mechanical Data	
Setting Method	Teach-in/NFC
Housing Material	Plastic
Degree of Protection	IP67/IP68
Connection	M12 × 1; 4-pin
Optic Cover	Plastic, PMMA
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	1312,61 a
NPN NO	●
External teach-in input	●
IO-Link	●
NFC interface	●
Connection Diagram No.	865
Control Panel No.	A54
Suitable Connection Equipment No.	2
Suitable Mounting Technology No.	360

Complementary Products

IO-Link Master	
Software	

