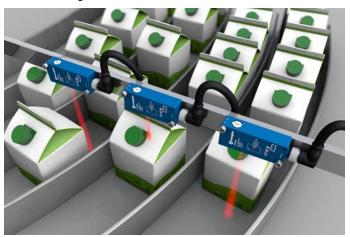
P1NH201





- Condition monitoring
- IO-Link 1.1
- Low switching distance deviation for black/white
- Reliably detect objects against any background

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.



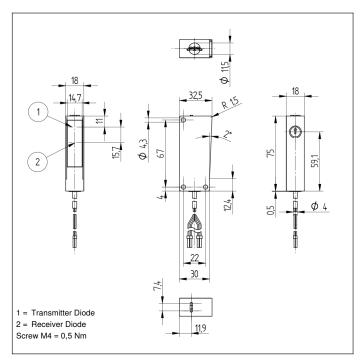
Optical Data	
Range	300 mm
Adjustable Range	50300 mm
Switching Hysteresis	< 5 %
Light Source	Red Light
Service Life (T = +25 °C)	100000 h
Max. Ambient Light	10000 Lux
Light Spot Diameter	see Table 1
Electrical Data	
Supply Voltage	1030 V DC
Supply Voltage with IO-Link	1830 V DC
Current Consumption (Ub = 24 V)	< 25 mA
Switching Frequency	1000 Hz
Switching Frequency (interference-free mode)	500 Hz
Response Time	0,5 ms
Response time (interference-free mode)	1 ms
Temperature Drift	< 5 %
Temperature Range	-4060 °C
Switching Output Voltage Drop	< 2 V
Switching Output/Switching Current	100 mA
Residual Current Switching Output	< 50 μA
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	Cable, 4-wire, 2 m
Optic Cover	PMMA
Safety-relevant Data	
MTTFd (EN ISO 13849-1)	2069,6 a
PNP NO/NC antivalent	•
IO-Link	
Connection Diagram No.	214
Control Panel No.	A28
Suitable Mounting Technology No.	350
* T	" 10

^{*} Temperature range with permanently installed cable, bending radius: > 40 mm

Complementary Products

Dust Extraction Tube STAUBTUBUS-03
IO-Link Master
Software









- 05 = Switching Distance Adjuster
- 30 = Switching Status/Contamination Warning
- 68 = Supply Voltage Indicator

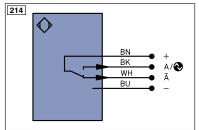
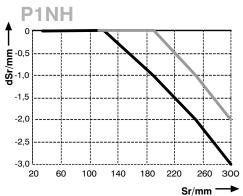


Table 1

Detection Range	50 mm	120 mm	300 mm
Light Spot Diameter	10 mm	10 mm	10 mm

Switching Distance Deviation

Typical characteristic curve based on white, 90 % remission



Sr = Switching Distance

dSr = Switching Distance Change

■ black 6 % remission















