

Notice of Discontinuation

P1NH704

**Reflex Sensor with background suppression
electronic**



EN

End-of-Life Notices

Discontinued Product: P1NH704

Recommended replacement product: P1NH706
P1PH702

Discontinuation date: 31.03.2027

Key Differences

Alternative Product 1 is the preferred choice when comparable high-end functionality is required. It offers electronic background suppression, IO-Link 1.1, NFC, teach-in, data storage, and two independent switching outputs. However, it should be noted that Alternative 1 has a different format (1P – 50 × 50 × 20 mm). Alternative Product 2, on the other hand, corresponds to the 1N format and thus offers a mechanically more similar alternative. Functionally, however, it is less capable than the discontinued product: Adjustment is performed via a single-turn adjuster. NFC, data storage, teach-in, and two independent switching outputs are not available.

Below you will find a detailed product comparison:

	Discontinued Product P1NH704	Alternative Product 1 P1PH702	Alternative Product 2 P1NH706
Visual Data			
Range	300 mm	300 mm	300 mm
Setting Range	65...300 mm	65...300 mm	65...300 mm
Switching Hysteresis	< 2 %	< 2 %	< 1 %
Light Source	Laser, red	Laser, red	Laser, red
Wavelength	655 nm	655 nm	655 nm
Service Life (T = +25 °C)	100000 h	100000 h	100000 h
Laser Class (EN 60825-1)	1	1	1
Max. Ambient Light	10000 Lux	10000 Lux	10000 Lux
Optical axis	Aligned	Aligned	Aligned
Switching point	Calibrated	Calibrated	Calibrated
Principle	Triangulation	Triangulation	Triangulation
Electrical Specifications			
Supply Voltage	15...30 V DC	15...30 V DC	10...30 V DC
Supply Voltage with IO-Link	18...30 V DC	18...30 V DC	18...30 V DC
Current Consumption (U _b = 24 V)	< 15 mA	< 20 mA	< 15 mA
Switching Frequency	150 Hz	150 Hz	1000 Hz
Switching Frequency (1 Switching Output)	800 Hz	800 Hz	
Switching Frequency (interference-free mode)			500 Hz
Response Time	3.3 ms	3.3 ms	0.5 ms
Response time (1 switching output)	1.25 ms	1.25 ms	
Response time (interference-free mode)			1 ms
Temperature Drift	< 3 %	< 3 %	< 2 %
Temperature Range	-25...60 °C	-25...60 °C	-25...60 °C

	Discontinued Product P1NH704	Alternative Product 1 P1PH702	Alternative Product 2 P1NH706
Switching Output Voltage Drop	< 2 V	< 2 V	< 2 V
Switching Output/Switching Current	100 mA	100 mA	100 mA
Short Circuit Protection	yes	yes	yes
Reverse Polarity Protection	yes	yes	yes
Overload Protection	yes	yes	yes
Interface	IO-Link V1.1	IO-Link V1.1	IO-Link V1.1
Protection Class	III	III	III
Mechanical Specifications			
Setting Method	Teach-in/NFC	Teach-in/NFC	Single-turn
Housing Material	Plastic, ABS/PC	Plastic, ABS/PC	Plastic, ABS/PC
Optic Cover	Plastic, PMMA	Plastic, PMMA	Plastic, PMMA
Degree of Protection	IP67 IP68	IP67 IP68	IP67 IP68
Connection	M12 × 1; 4-pin	M12 × 1; 4-pin	M12 × 1; 4-pin
Output Functions			
Output	NPN	NPN	NPN
Circuit	NO	NO	NC+NO
Adjustable Parameters			
Output	Push-pull NPN PNP	Push-pull NPN PNP	Push-pull NPN PNP
Circuit	NC NO NC/NO	NC NO NC/NO	NC NO inactive Error output NC+NO
Other parameters	Off-delay On-delay Mode of operation Hysteresis Switching point Emitted light	Off-delay On-delay Mode of operation Hysteresis Switching point Emitted light	Off-delay On-delay Mode of operation Hysteresis Switching point Emitted light

Light spot diameter

P1NH704

Table 1			
Detection Range	65 mm	150 mm	300 mm
Light Spot Diameter	3 mm	2,5 mm	1,5 mm

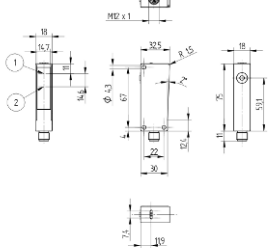
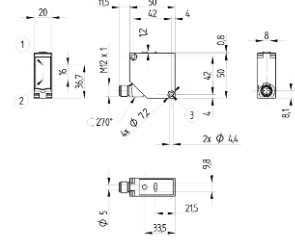
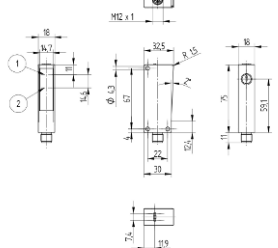
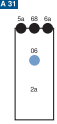
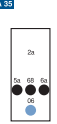
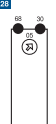
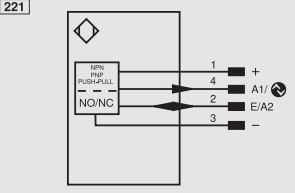
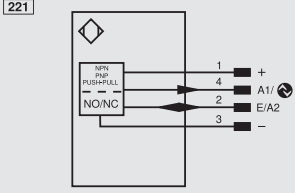
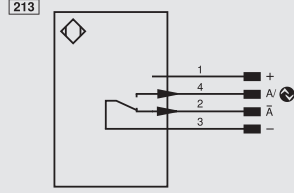
P1PH702

Table 1			
Detection Range	65 mm	150 mm	300 mm
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P1NH706

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Product Images/Technical Drawings/Connection Diagrams/Certifications

	Discontinued Product P1NH704		Alternative Product 1 P1PH702	Alternative Product 2 P1NH706	
Product image					
Dimensioned image	 ① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm		 ① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm	 ① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm	
control panel	 06 = Teach Button 5a = Switching Status Indicator, O1 68 = Power LED 6a = Switching Status Indicator, O2 2a = NFC interface		 06 = Teach Button 5a = Switching Status Indicator, O1 68 = Power LED 6a = Switching Status Indicator, O2 2a = NFC interface	 05 = Switching Distance Adjuster 30 = Switching Status/Contamination Warning 68 = Power LED	
connection diagram					
Approvals	    		    	    	