

Notice of Discontinuation

HN24MGV-P24

Reflex Sensor with Background Suppression



EN

End-of-Life Notices

Discontinued product: HN24MGV-P24

Recommended alternative product: P1PC112

Discontinuation date: 28.04.2026

Key Differences

The alternative product operates with laser light (observe laser safety warnings) and features a configurable error output.

The alternative product has a 5-pin M12 plug.

Below you will find a detailed product comparison:

	Discontinued product HN24MGV-P24	Alternative product P1PC112
Product group	Reflex Sensor with Background Suppression	Laser Distance Sensor Triangulation
Optical data		
Working Range	55...155 mm	40...240 mm
Measuring Distance	105 mm	
Measuring Range	100 mm	40...240 mm
Resolution	500 µm	
Linearity	1 %	
Reproducibility maximum		200 µm
Reproducibility: 1 Sigma		20 µm
Linearity Deviation		400 µm
Switching Hysteresis		< 0.5 %
Light Source	Red Light	Laser (red)
Wavelength	660 nm	655 nm
Service Life (T = +25 °C)	100000 h	100000 h
Laser Class (EN 60825-1)		1
Max. Ambient Light	10000 Lux	10000 Lux
Light Spot Diameter	3 mm	
Electrical data		
Supply Voltage	18...30 V DC	18...30 V DC
Current Consumption (Ub = 24 V)	< 40 mA	< 35 mA
Cut-Off Frequency	100 Hz	
Switching Frequency		650 Hz
Measuring Rate		2500 /s
Response Time	5 ms	< 0.77 ms
Temperature Drift	50 µm/K	< 45 µm/K
Temperature Range	-10...60 °C	-25...50 °C
Number of Switching Outputs		1
Switching Output Voltage Drop		< 1.5 V
Switching Output/Switching Current		100 mA
PNP Error Output/Switching Current	200 mA	

	Discontinued product HN24MGV-P24	Alternative product P1PC112
Analog Output	0...10 V	0...10 V
Output Current Analog Output	500 µA	
Short Circuit Protection	yes	yes
Reverse Polarity Protection	yes	yes
Overload Protection		yes
Interface		IO-Link V1.1
IO-Link transmission speed		COM3
Protection Class	III	III
FDA Accession Number		2512215-000
Mechanical Data		
Setting Method		Teach-In NFC
Housing Material	Plastic, PBT	Plastic, ABS
Optic Cover	Glass	Plastic, PMMA
Degree of Protection	IP67	IP67 IP68
Connection	Cable; 6-wire	M12 × 1; 5-pin
Cable length (L)	6 m	
Cable Jacket Material	PVC	
Wire cross-section	0.25 mm ²	
Safety technology data		
MTTFd (EN ISO 13849-1)	2142.98 a	566.57 a
Output functions		
Output	Analog Output Error Output	Analog Output PNP
Circuit		NO
Adjustable parameters		
Output		Error Output Push-pull NPN PNP
Circuit		NC NC/NO NO
Other parameters		Exposure time Laser light Switching hysteresis Teach-in mode Off-delay On-delay

Light spot diameter

P1PC112

Working Distance	40 mm	140 mm	240 mm
Spot Size	1,1 × 3 mm	0,7 × 2,8 mm	0,4 × 2,7 mm

Product Images/Technical Drawings/Connection Diagrams/Certifications		
	Discontinued Product HN24MGV-P24	Alternative product P1PC112
Product image		
Dimensioned image	① Transmitter Diode ② Receiver Diode Screw M4 = 1 Nm	① Transmitter Diode ② Receiver Diode Screw M4 = 1 Nm
control panel	N2 12 = Analog Output Indicator 03 = Error Indicator	X12 5a = Switching Status Indicator, O1 68 = Power LED 7c = Analog Output Indicator, AO 60 = display 06 = Teach Button
connection diagram	603	241

	Discontinued Product HN24MGV-P24		Alternative product P1PC112	
Approvals		 RoHS		 RoHS
				
				
				