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Notice of Discontinuation
CP35MHT80S957
Laser Distance Sensor Triangulation

EN

Available as PDF file only
Version 1.0
www.wenglor.com

End-of-Life Notices

Discontinued product:	CP35MHT80S957
Recommended Replacement Product:	P1PC212
Discontinuation effective:	30.04.2027

Key Differences

In the successor model, the optical axis has been shifted.

On the successor product, the switching point can be readjusted via the control panel, all other functions can be set via NCF or IO-Link.
The successor product has a 5-pin M12 plug. The existing connection equipment can continue to be used with the ZC4P003 adapter.

In the successor product, mounting is no longer done using slotted holes.

The successor product has an IO-Link interface instead of RS-232.

Below is a detailed product comparison:

	Discontinued Product CP35MHT80S957	Successor product P1PC212
Optical Data		
Working Range	50...350 mm	50...350 mm
Measuring Range	300 mm	50...350 mm
Reproducibility maximum	1200 µm	300 µm
Reproducibility: 1 Sigma	400 µm	30 µm
Linearity Deviation	1000 µm	600 µm
Light Source	Laser (red)	Laser (red)
Wavelength	660 nm	655 nm
Service Life (T = +25 °C)	100000 h	100000 h
Laser Class (EN 60825-1)	2	1
Max. Ambient Light	10000 Lux	10000 Lux
Technical Specifications		
Supply Voltage	18...30 V DC	18...30 V DC
Current Consumption (Ub = 24 V)	< 80 mA	< 35 mA
Switching Frequency		650 Hz
Measuring Rate	800 /s	2500 /s
Measuring Rate (Resolution-Mode)		
Response Time	< 1250 µs	< 0.77 ms
Response Time (Resolution Mode)		
Temperature Drift	< 75 µm/K	< 60 µm/K
Temperature Range	-25...50 °C	-25...50 °C
Analog Output	0...10 V	0...10 V
Load Current Voltage Output	< 1 mA	
Current Output Load Resistance	< 500 Ohm	
Switching Output Voltage Drop		< 1.5 V
Switching Output/Switching Current		100 mA

	Discontinued Product CP35MHT80S957	Successor product P1PC212
Short Circuit Protection		yes
Reverse Polarity Protection		yes
Overload Protection		yes
Interface		IO-Link NFC
Transmission rate		
Protection Class	III	III
FDA Accession Number	0820590-000	2512215-000
Mechanical Data		
Setting Method		Teach-In NFC
Housing Material	Plastic, ABS Plastic, PC	Plastic, ABS
Optic Cover	Plastic, PMMA	Plastic, PMMA
Degree of Protection	IP67	IP67 IP68
Connection	M12 × 1; 8-pin	M12 × 1; 5-pin
General Specifications		
Scope of delivery	1 × initial start-up instructions 1 × laser warning sign 1 × sensor	1 × Z1PE002 mounting set 1 × initial start-up instructions 1 × sensor
Output Functions		
Output	Analog 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

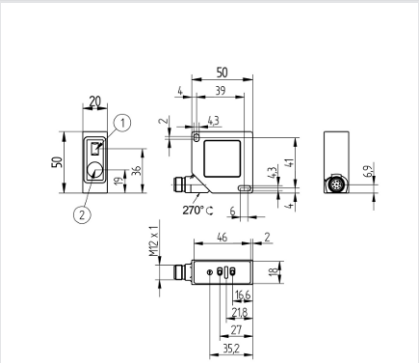
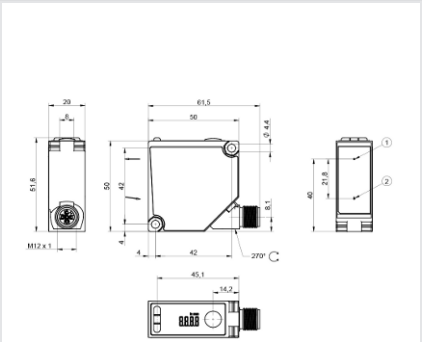
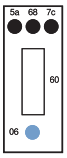
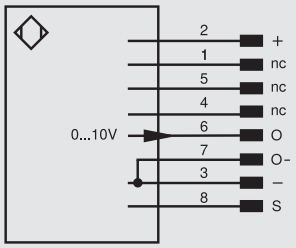
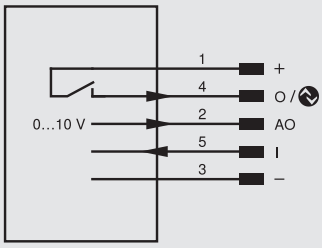
CP35MHT80S957

Working Distance	50 mm	-	350 mm
Spot Size	0,6 × 1,5 mm	-	1,5 × 4 mm

P1PC212

Working Distance	50 mm	200 mm	350 mm
Spot Size	1,3 × 3,1 mm	0,8 × 3,1 mm	0,4 × 3,1 mm

Product Images/Technical Drawings/Connection Diagrams/Certifications

	Discontinued Product CP35MHT80S957	Successor Product P1PC212
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
control panel		 5a = Switching Status Indicator, O1 68 = Power LED 7c = Analog Output Indicator, AO 60 = display 06 = Teach Button
connection diagram		 1 = Supply voltage + 2 = Analog output, 0...10 V 3 = Supply voltage 0 V 4 = Switching output, IO-Link, PNP, NO 5 = Input, active-high

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Approvals