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Notice of Discontinuation
YP06MGV80
Laser Distance Sensor Triangulation

EN

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

End-of-Life Notices

Discontinued product:	YP06MGV80
Recommended replacement product:	P1PC012
Discontinuation as of:	28.04.2026

Key Differences

The successor product has a larger working range.

On the successor product, a contamination/error output can be configured as NC or NO on pin 2 via IO-Link.
The successor product has a 5-pin M12 plug. The changed pin assignment must be observed.

Below you will find a detailed product comparison:

	Discontinued Product YP06MGV80	Successor Product P1PC012
Visual data		
Working Range	40...60 mm	30...80 mm
Measuring Distance	50 mm	
Measuring Range	20 mm	30...80 mm
Resolution	40 µm	
Linearity	0.5 %	
Linearity Deviation	100 µm	80 µm
Light Source	Laser (red)	Laser (red)
Wavelength	655 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
Light Spot Diameter	0.5 mm	
Light Spot Diameter		see Table 1
Technical data		
Supply Voltage	18...30 V DC	18...30 V DC
Current Consumption (Ub = 24 V)	< 30 mA	< 35 mA
Switching Frequency		650 Hz
Measuring Rate		2500 /s
Cut-Off Frequency	1 kHz	
Response Time	500 µs	< 0.77 ms
Temperature Drift (Tu < 10 °C, Tu > 40 °C)	10 µm/K	
Temperature Drift (10 °C < Tu < 40 °C)	7 µm/K	
Temperature Drift		< 7.5 µm/K
Temperature Range	-10...60 °C	-25...50 °C
Switching Output Voltage Drop		< 1.5 V
Switching Output/Switching Current		100 mA
Error Output Voltage Drop	< 2.5 V	
PNP Error Output/Switching Current	200 mA	

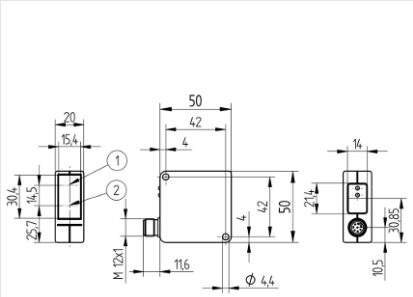
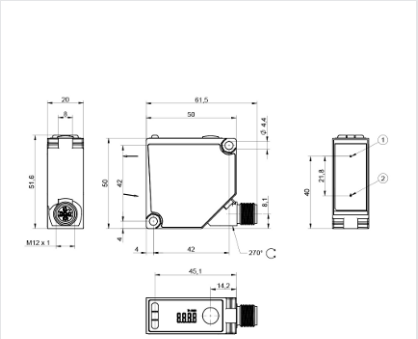
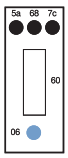
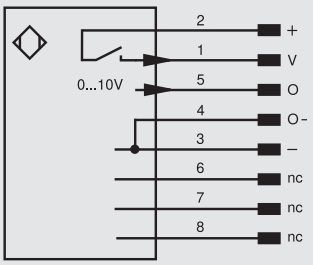
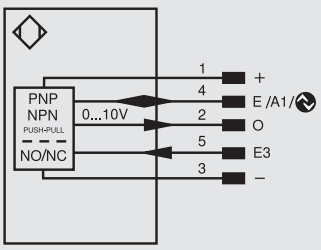
	Discontinued Product YP06MGV80	Successor Product P1PC012
Analog Output	0...10 V	0...10 V
Short Circuit Protection	yes	yes
Reverse Polarity Protection	yes	yes
Overload Protection	yes	yes
Interface		IO-Link NFC
Protection Class	III	III
FDA Accession Number		2512215-000
Mechanical Data		
Setting Method		Teach-In NFC
Housing Material	Plastic, PBT	Plastic, ABS
Optic Cover	Glass	Plastic, PMMA
Full Encapsulation	yes	
Degree of Protection	IP67	IP67 IP68
Connection	M12 × 1; 8-pin	M12 × 1; 5-pin
General data		
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 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

P1PC012

Working Distance	30 mm	50 mm	80 mm
Spot Size	0,8 × 2,1 mm	0,5 × 1,7 mm	1,0 × 2,0 mm

Product Images/Technical Drawings/Connection Diagrams/Certifications

	Discontinued product YP06MGV80	Successor product P1PC012
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	P3  03 = Error Indicator 12 = Analog Output Indicator	X12  **5a = Switching Status Indicator, O1** **68 = Power LED** **7c = Analog Output Indicator, AO** **60 = display** **06 = Teach Button**
connection diagram	503 	241 

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Approvals