wenglor
the innovative family

Notice of Discontinuation
CP70QXVT80S806
Laser Distance Sensor Triangulation



EN

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

End-of-Life Notices

Discontinued product:	CP70QXVT80S806
Recommended Replacement Product:	P1PC321
Discontinuation Date:	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 ZC4P001 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 you will find a detailed product comparison:

	Discontinued product CP70QXVT80S806	Successor product P1PC321
Optical Data		
Range	800 mm	
Working Range		60...660 mm
Setting Range	60...800 mm	60...660 mm
Switching Hysteresis	< 1 %	< 1 %
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
Technical Specifications		
Supply Voltage	10...30 V DC	18...30 V DC
Current Consumption (Ub = 24 V)	< 50 mA	< 35 mA
Switching Frequency	150 Hz	650 Hz
Response Time	< 3300 µs	< 0.77 ms
On-/Off-Delay (RS-232)	0...1 s	
Temperature Drift	< 80 µm/K	< 150 µm/K
Temperature Range	-25...60 °C	-25...50 °C
Number of Switching Outputs	2	2
Switching Output Voltage Drop	< 1.5 V	< 1.5 V
Switching Output/Switching Current	200 mA	100 mA
Short Circuit Protection	yes	yes
Reverse Polarity Protection	yes	yes
Overload Protection		yes
Teach Mode	HT, VT, TP	

	Discontinued product CP70QXVT80S806	Successor product P1PC321
Interface	RS-232	IO-Link NFC
Protection Class	III	III
FDA Accession Number		2512215-000
Mechanical Data		
Setting Method	Teach-In	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	PNP Error Output	PNP
Circuit	NO	NO
Adjustable Parameters		
Output	Error Output Push-pull NPN PNP	Error Output Push-pull NPN PNP
Circuit		NC NC/NO NO
Other parameters	Off-delay On-delay Exposure time Laser light Switching hysteresis Teach-in mode	Exposure time Laser light Switching hysteresis Teach-in mode Off-delay On-delay

light spot diameter

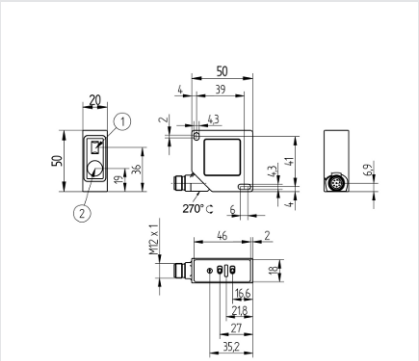
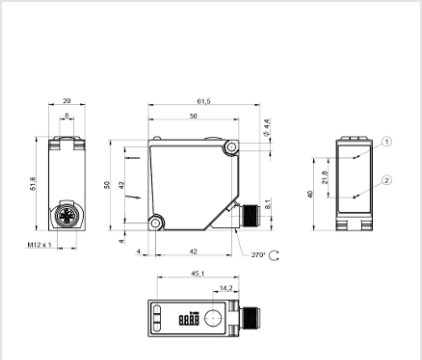
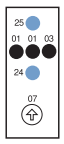
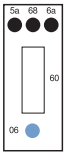
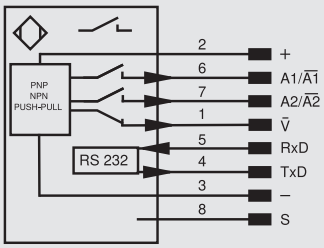
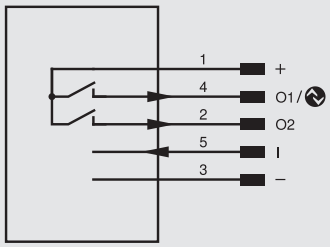
CP70QXVT80S806

Detection Range	60 mm	-	800 mm
Spot Size	0,6 × 2,5 mm	-	4 × 10 mm

P1PC321

Working Distance	60 mm	360 mm	660 mm
Spot Size	1,5 × 3,5 mm	1,3 × 5 mm	1,1 × 6,7 mm

Product Images/Technical Drawings/Connection Diagrams/Certifications

	Discontinued Product CP70QXVT80S806	Successor Product P1PC321
Product image		
Dimensioned drawing	 ① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm	 ① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm
control panel	P8  24 = Plus Button 25 = Minus Button 07 = Selector Switch 03 = Error Indicator 01 = Switching Status Indicator	X13  06 = Teach Button 5a = Switching Status Indicator, O1 68 = Power LED 6a = Switching Status Indicator, O2 60 = display
connection diagram	737  PNP NPN PUSH-PULL RS 232 2 + 6 A1/Ā1 7 A2/Ā2 1 V̄ 5 RxD 4 TxD 3 – 8 S	 1 = Supply voltage + 2 = Switching output O2, PNP NO 3 = Supply voltage 0 V 4 = Switching output O1, IO-Link, PNP, NO 5 = Input, active-high

	Discontinued Product CP70QXVT80S806		Successor Product P1PC321	
Approvals	