

Notice of Discontinuation

CP70QXVT80

Laser Distance Sensor Triangulation



EN

End-of-Life Notices

Discontinued product: CP70QXVT80

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 CP70QXVT80	Successor product P1PC321
Optical Data		
Range	660 mm	
Working Range		60...660 mm
Setting Range	60...660 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	250 Hz	650 Hz
Response Time	< 2 ms	< 0.77 ms
On-/Off-Delay (RS-232)	0...1 s	
Temperature Drift	< 50 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 CP70QXVT80	Successor product P1PC321
Interface	RS-232	IO-Link NFC
Protection Class	III	III
FDA Accession Number	0820587-000	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	NC NC/NO NO
Other parameters	Exposure time Laser light Switching hysteresis Teach-in mode Off-delay On-delay	Exposure time Laser light Switching hysteresis Teach-in mode Off-delay On-delay

light spot diameter

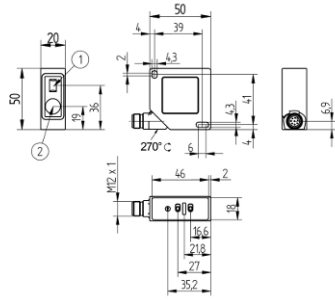
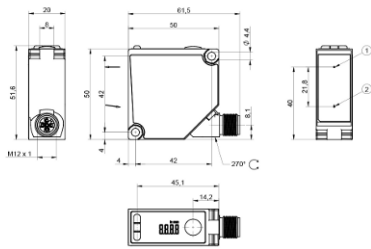
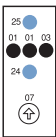
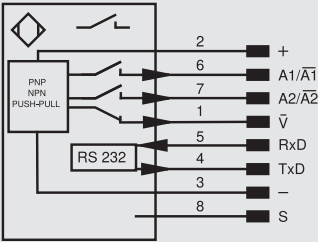
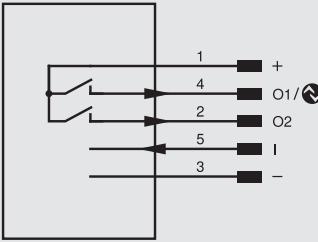
CP70QXVT80

Detection Range	60 mm	-	660 mm
Spot Size	0,6 × 2,5 mm	-	3 × 8 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 CP70QXVT80	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	 24 = Plus Button 25 = Minus Button 07 = Selector Switch 03 = Error Indicator 01 = Switching Status Indicator	 06 = Teach Button 5a = Switching Status Indicator, O1 68 = Power LED 6a = Switching Status Indicator, O2 60 = display
connection diagram	 737	 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 CP70QXVT80		Successor Product P1PC321	
Approvals		 RoHS		 RoHS
		UK CA		UK CA
	 LISTED IND. CONT. EQ 72HL / E189727 For use in class 2 circuits	 LASER CLASS 2 EN 60825-1	 LISTED IND. CONT. EQ 72HL / E189727 For use in class 2 circuits	 LASER CLASS 1 EN60825-1:2024 A11:2021
				