

Notice of Discontinuation

YP09PBV3

Laser Distance Sensor Triangulation



EN

End-of-Life Notices

Discontinued product: YP09PBV3

Recommended successor product: P1PC181

Discontinuation as of: 28.04.2026

Key Differences

The successor model has a wider setting 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 lower switching frequency.

The successor product has a 5-pin M12 plug.

Below you will find a detailed product comparison:

	Discontinued product YP09PBV3	Successor product P1PC181
Visual Data		
Range	100 mm	
Working Range		40...240 mm
Setting Range	60...100 mm	40...240 mm
Switching Hysteresis	< 200 µm	< 0.5 %
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
Light Spot Diameter	0.8 mm	
Focus Distance	110 mm	
Technical Specifications		
Supply Voltage	10...30 V DC	18...30 V DC
Current Consumption (U _b = 24 V)	< 30 mA	< 30 mA
Switching Frequency	1500 Hz	650 Hz
Response Time	333 µs	< 0.77 ms
Temperature Drift	< 15 µm/K	< 45 µm/K
Temperature Range	-25...60 °C	-25...60 °C
Number of Switching Outputs		1
Switching Output Voltage Drop	< 2.5 V	< 1.5 V
Switching Output/Switching Current		100 mA
PNP Switching Output/Switching Current	200 mA	
PNP Contamination Output/Switching Current	50 mA	
Short Circuit Protection	yes	yes
Reverse Polarity Protection	yes	yes
Overload Protection	yes	yes
Interface		IO-Link V1.1

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Protection Class	III	III
FDA Accession Number		2512215-000
Mechanical Data		
Setting Method	Potentiometer	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; 4-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	PNP Contamination Output	PNP
Circuit	NO	NC+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

P1PC181

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

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Approvals				
				
				
				