

Notice of Discontinuation

**YP05PBV3**

**Laser Distance Sensor Triangulation**



EN

# End-of-Life Notices

Discontinued product: YP05PBV3

Recommended successor product: P3PC001

Discontinuation as of: 28.04.2026

## Key Differences

The successor product operates at laser class 1 as shipped, but can be switched to laser class 2 in wTeach via a license (observe laser safety warnings).

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 YP05PBV3	Successor product P3PC001
<b>Visual Data</b>		
Range	55 mm	
Working Range		30...80 mm
Setting Range	45...55 mm	30...80 mm
Reproducibility maximum		13 µm
Reproducibility: 1 Sigma		0.8 µm
Linearity Deviation		40 µm
Switching Hysteresis	< 50 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	20000 Lux
Light Spot Diameter	0.5 mm	
Focus Distance	75 mm	
<b>Technical Specifications</b>		
Supply Voltage	10...30 V DC	18...30 V DC
Current Consumption (U <sub>b</sub> = 24 V)	< 30 mA	< 50 mA
Switching Frequency	1500 Hz	650 Hz
Response Time	333 µs	< 0.5 ms
Temperature Drift	< 5 µm/K	< 2.5 µm/K
Temperature Range	-25...60 °C	-30...60 °C
Number of Switching Outputs		2
Switching Output Voltage Drop	< 2.5 V	< 1.5 V
Switching Output/Switching Current		100 mA
PNP Switching Output/Switching Current	200 mA	

	Discontinued product YP05PBV3	Successor product P3PC001
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
Protection Class	III	III
FDA Accession Number		2310674-000
<b>Mechanical Data</b>		
Setting Method	Potentiometer	Teach-In
Housing Material	Plastic, PBT	Aluminum, anodised Plastic, ABS
Optic Cover	Glass	Plastic, PMMA
Full Encapsulation	yes	
Degree of Protection	IP67	IP67
Connection	M12 × 1; 4-pin	M12 × 1; 5-pin
<b>General Data</b>		
Scope of delivery	1 × initial start-up instructions 1 × laser warning sign 1 × sensor	1 × initial start-up instructions 1 × sensor
<b>Output Functions</b>		
Output	PNP Contamination Output	PNP
Circuit	NO	NO
<b>Adjustable parameters</b>		
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

P3PC001

Working Distance	30 mm	55 mm	80 mm
Light Spot Diameter	1,5 mm	1,5 mm	1,5 mm

Product images/Technical drawings/Connection diagrams/Certifications

	Discontinued product YP05PBV3	Successor product P3PC001
Product image		
Dimensioned image	<p>① Transmitter Diode ② Receiver Diode Screw M4 = 1 Nm</p>	<p>① Transmitter Diode ② Receiver Diode Screw M4 = 1 Nm M5 screw = 2 Nm</p>
control panel	<p><b>P2</b></p> <p>01 = Switching Status Indicator 05 = Switching Distance Adjuster 32 = Contamination Warning/Error Warning</p>	<p><b>X5</b></p> <p>06 = Teach Button 5a = Switching Status Indicator, A1 68 = Power LED 6a = Switching Status Indicator, A2</p>
connection diagram	<p><b>103</b></p>	<p><b>243</b></p>

	Discontinued product YP05PBV3		Successor product P3PC001	
Approvals				
				
				
				