

Notice of Discontinuation

YP05PA3

Laser Distance Sensor Triangulation



EN

End-of-Life Notices

Discontinued product: YP05PA3

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, an antivalent second switching output can be configured.

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 YP05PA3	Successor product P3PC001
Optical data		
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	
Technical Specifications		
Supply Voltage	10...30 V DC	18...30 V DC
Current Consumption (U _b = 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
Switching Output Voltage Drop	< 2.5 V	< 1.5 V
Switching Output/Switching Current		100 mA
PNP Switching Output/Switching Current	200 mA	
Short Circuit Protection	yes	yes
Reverse Polarity Protection	yes	yes



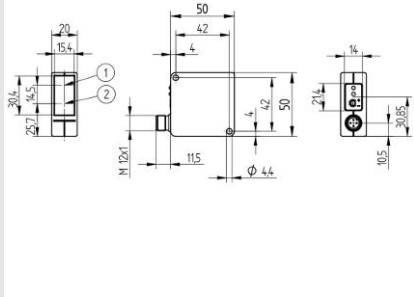
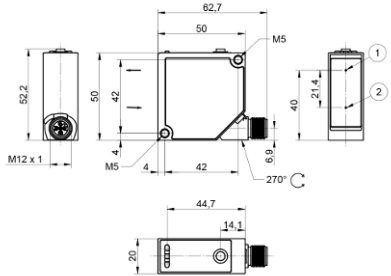

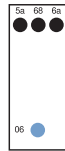
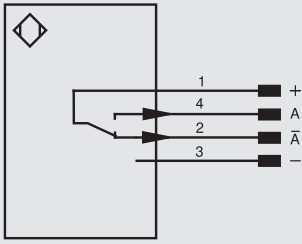
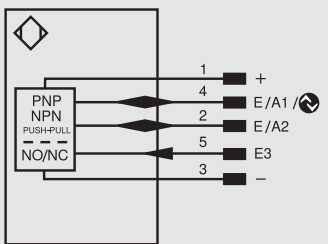
	Discontinued product YP05PA3	Successor product P3PC001
Overload Protection	yes	yes
Interface		IO-Link
Protection Class	III	III
FDA Accession Number		2310674-000
Mechanical Data		
Setting Method	Potentiometer	Teach-In
Housing Material	Plastic, PBT	Aluminum, anodised Plastic, ABS
Optic Cover	Glass	Plastic, PMMA
Full Encapsulation	yes	
Degree of Protection	IP67	IP67
Connection	M12 × 1; 4-pin	M12 × 1; 5-pin
General Data		
Scope of delivery	1 × initial start-up instructions 1 × laser warning sign 1 × sensor	1 × initial start-up instructions 1 × sensor
Output functions		
Output	PNP	PNP
Circuit	NC+NO	NO
Adjustable parameters		
Output		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

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 YP05PA3	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>P2</p>  <p>01 = Switching Status Indicator 05 = Switching Distance Adjuster 32 = Contamination Warning/Error Warning</p>	<p>X5</p>  <p>06 = Teach Button 5a = Switching Status Indicator, A1 68 = Power LED 6a = Switching Status Indicator, A2</p>
connection diagram	<p>101</p> 	<p>243</p> 

	Discontinued product YP05PA3		Successor product P3PC001	
Approvals	