

Notice of Discontinuation

X1TA100QXT3

Laser Distance Sensor Time of Flight



EN

Notice of discontinuation

Discontinued product: X1TA100QXT3

Recommended successor product: P1PX201

Termination as of: 30.06.2025

Key differences

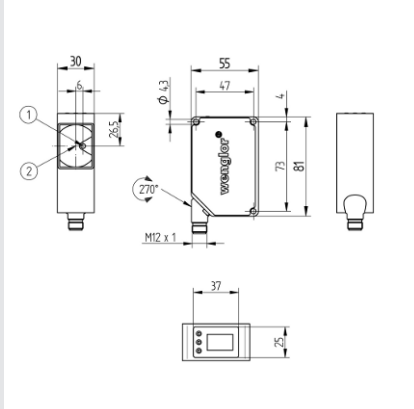
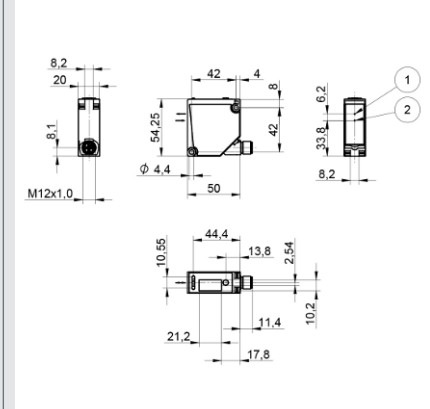
- The successor product has a 5-pin M12 plug.
- The successor product has a smaller format. Adapter Z1PC002 can be used to ensure mechanical compatibility.

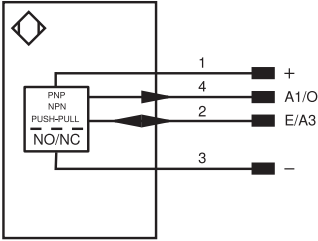
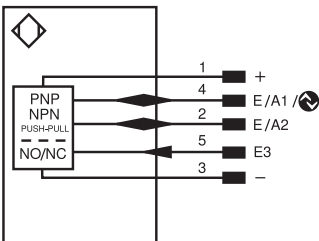
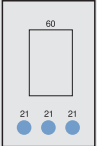
Below you will find the detailed product comparison:

	Discontinued product X1TA100QXT3	Successor product P1PX201
Photo of Product		
Optical data		
Working Range	100...10200 mm	200...100000 mm
Measuring Range	10000 mm	
Reference Reflector/Reflector Foil	RF508	RF505
Resolution	2...6 mm	
Reproducibility maximum		20 mm*
Linearity Deviation	50 mm	50 mm*
Linearity	0,5 %	
Switching Hysteresis	3...20 mm	< 50 mm
Light Source	Laser (red)	Laser (red)
Wavelength	660 nm	660 nm
Laser Class (EN 60825-1)	1	1
Service Life (T = +25 °C)	100000 h	100000 h
Max. Ambient Light	10000 Lux	25000 Lux
Beam Divergence	< 2 mrad	< 2 mrad
Light Spot Diameter	see Table 1	see Table 1
Reflector required	yes	yes
Electrical data		
Supply Voltage	18...30 V DC	18...30 V DC
Current Consumption (Ub = 24 V)	< 100 mA	< 60 mA
Switching Frequency	50 Hz	25 Hz*
Switching Frequency (max.)		50 Hz*
Measuring Rate	1...100 /s	
Response Time	10...200 ms	30 ms *
Response Time (min.)		15 ms *

	Discontinued product X1TA100QXT3	Successor product P1PX201
On-/Off-Delay	0...10000 ms	
Temperature Drift (-10 °C < Tu < 50 °C)	< 0,2 mm/K	
Temperature Drift (Tu < -10 °C, Tu > 50 °C)	< 0,4 mm/K	
Temperature Drift		< 0,4 mm/K
Temperature Range	-25...60 °C	-40...50 °C
Number of Switching Outputs	2	2
Switching Output Voltage Drop	< 2,5 V	< 2,5 V
Switching Output/Switching Current	200 mA	100 mA
Analog Output	0...10 V	
Short Circuit Protection	yes	yes
Reverse Polarity Protection	yes	yes
Overload Protection	yes	yes
Interface		IO-Link V1.1.3
Protection Class	III	III
FDA Accession Number	0920382-000	2412451-000
Mechanical data		
Setting Method	Menu (OLED)	(OLED)/Bluetooth menu
Housing Material	Plastic, ABS Plastic, PC	Plastic, ABS
Optic Cover	Plastic, PMMA	Plastic, PMMA
Degree of Protection	IP68	IP67 IP68
Connection	M12 × 1; 4-pin	M12 × 1; 5-pin
Output functions		
Error Output	yes	
Analog Output	yes	
PNP NC	yes	
PNP NO		yes
		* Depends on mode, see table 2

Technical drawings/connection diagrams/approvals

Dimensioned image	 ① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm	 ① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm
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Connection diagram	755 	243 
Control panel	TA1  21 = Mode Button 60 = display	X7  68 = Power LED 5a = Switching Status Indicator, A1 6a = Switching Status Indicator, A2 60 = display 20 = Enter key
Approvals		

Reflector data	X1TA100QXT3	P1PX201
RF505	0,1...10 m	0,2...100 m
RF508	0,1...10 m	0,2...25 m
RF258	0,1...10 m	0,2...10 m
ZRAF07K01	0,1...10 m	0,2...100 m
ZRAF08K01	0,1...10 m	0,2...100 m
ZRDF03K01	0...10 m	0,2...0,25 m
ZRDF10K01	0...10 m	0,2...50 m
RQ100BA		0,2...50 m

Light spot diameter

X1TA100QXT3

Table 1

Working Distance	0 m	10 m	
Light Spot Diameter	5 mm	< 20 mm	

P1PX201

Table 1

Working Distance	0 m	50 m	100 m
Light Spot Diameter	5 mm	< 100 mm	< 200 mm