wenglor
the innovative family

Notice of Discontinuation
X1TA101MHV80
Laser Distance Sensor Time of Flight



EN

Available as PDF file only
Version 1.0
www.wenglor.com

Notice of discontinuation

Discontinued product: X1TA101MHV80

Recommended successor product: P1PX208

Termination as of: 30.06.2025

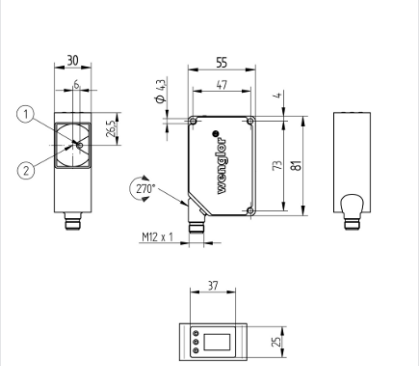
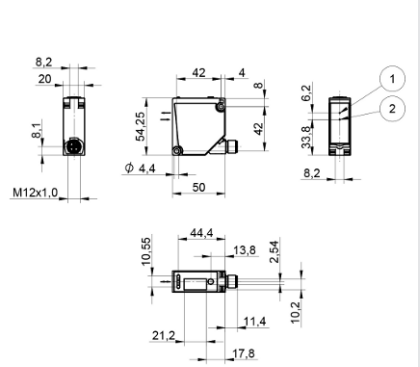
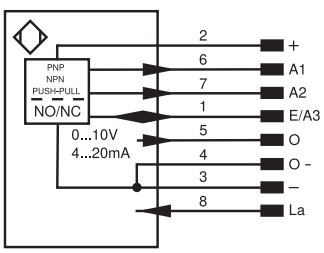
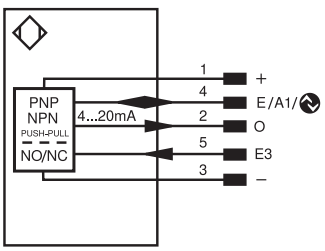
Key differences

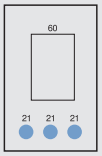
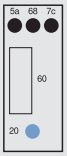
- The successor product has a smaller format. Adapter Z1PC002 can be used to ensure mechanical compatibility.

Below you will find the detailed product comparison:

	Discontinued product X1TA101MHV80	**Successor product P1PX208**
Photo of Product		
Optical data		
Working Range	200...100200 mm	200...100000 mm
Measuring Range	100000 mm	200...100000 mm
Reference Reflector/Reflector Foil	4 × RQ100BA	RF505
Resolution	4...20 mm	
Reproducibility maximum		20 mm*
Linearity Deviation	50 mm	50 mm*
Linearity	0,05 %	
Switching Hysteresis	13...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	
Measuring Rate	1...100 /s	50 /s*
Measuring Rate (max.)		100 /s*
On-/Off-Delay	0...10000 ms	
Temperature Drift	0,5 mm/K	< 0,4 mm/K

	Discontinued product X1TA101MHV80	Successor product P1PX208
Temperature Range	-25...60 °C	-40...50 °C**
Number of Switching Outputs	2	
Switching Output Voltage Drop	< 2,5 V	
Switching Output/Switching Current	200 mA	
Analog Output	0...10 V	4...20 mA
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)	Menu (OLED)
Housing Material	Plastic, ABS Plastic, PC	Plastic, ABS
Optic Cover	Plastic, PMMA	Plastic, PMMA
Degree of Protection	IP68	IP67 IP68
Connection	M12 × 1; 8-pin	M12 × 1; 5-pin
Output functions		
Error Output	yes	
Analog Output	yes	yes
PNP NO	yes	yes
		* Depends on mode, see table 2 ** At max. 10,000 lux ambient light and min. 500 ohm load at analog output

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
Connection diagram	514 	242 

Control panel	TA1  21 = Mode Button 60 = display	X6  68 = Power LED 5a = Switching Status Indicator, A1 20 = Enter key 60 = display 7c = Analog Output Indicator, O
Approvals	CE c UL us LISTED IND. CONT. EQ 72HL / E189727 For use in class 2 circuits LASER CLASS 1 EN 60825-1:2014+A11:2021 RoHS UKCA	CE c UL us LISTED IND. CONT. EQ 72HL / E189727 For use in class 2 circuits LASER CLASS 1 EN 60825-1:2014+A11:2021 RoHS UKCA

Reflector data	X1TA101MHV80	P1PX208
RF505	0,2...40 m	0,2...100 m
RF508	0,2...40 m	0,2...25 m
RF258	0,2...40 m	0,2...10 m
ZRAF07K01	0,2...40 m	0,2...100 m
ZRAF08K01	0,2...40 m	0,2...100 m
ZRDF03K01	0,2...40 m	0,2...25 m
ZRDF10K01	0,2...100 m	0,2...50 m
RQ100BA	5...100 m	0,2...50 m

Light spot diameter

X1TA101MHV80

Table 1

Working Distance	0 m	40 m	100 m
Light Spot Diameter	5 mm	80 mm	< 200 mm

P1PX208

Table 1

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