

Notice of Discontinuation

Y1TA100MHV80

Laser Distance Sensor Time of Flight



EN

Notice of discontinuation

Discontinued product: Y1TA100MHV80



Recommended successor product: P1PY207

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:

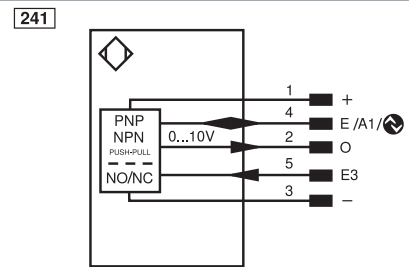
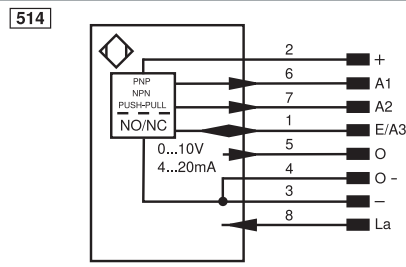
	Discontinued product Y1TA100MHV80	Successor product P1PY207
Photo of Product		
Optical data		
Working Range	0,1...10,1 m	0...10000 mm
Measuring Range	10 m	50...10000 mm
Resolution	1...12 mm	
Reproducibility maximum		3 mm*
Linearity Deviation		10 mm*
Linearity (Working Range 0.1...5 m)	0,05 %	
Linearity (Working Range 5...10.1 m)	0,2 %	
Switching Hysteresis	3...20 mm	
Light Source	Laser (red)	Laser (red)
Wavelength	660 nm	660 nm
Laser Class (EN 60825-1)	2	1
Service Life (T = +25 °C)	100000 h	100000 h
Max. Ambient Light	10000 Lux	100000 Lux
Beam Divergence	< 2 mrad	< 2 mrad
Light Spot Diameter	see Table 1	see Table 1
Reflector required	no	no
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	100 /s*
On-/Off-Delay	0...10000 ms	
Temperature Drift (-10 °C < Tu < 50 °C)	< 0,2 mm/K	

	Discontinued product Y1TA100MHV80	Successor product P1PY207
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	
Switching Output Voltage Drop	< 2,5 V	
Switching Output/Switching Current	200 mA	
Analog Output	0...10 V	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	0710891-002	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; 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

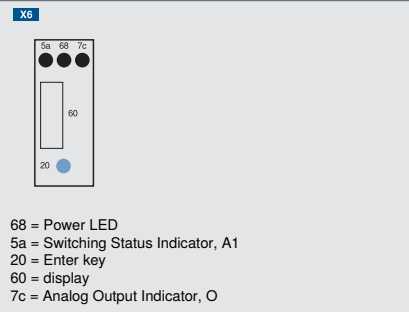
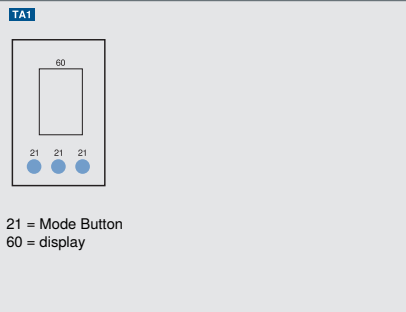
Technical drawings/connection diagrams/approvals

Dimensioned image		
	<p>① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm</p>	<p>① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm</p>

Connection diagram



Control panel



Approvals

Light spot diameter

Y1TA100MHV80

Table 1

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

P1PY207

Table 1

Working Distance	0 m	5 m	10 m
Light Spot Diameter	5 mm	10 mm	15 mm