

Notice of Discontinuation

OY1TA603P0003

Laser Distance Sensor Time of Flight



EN

Notice of discontinuation

Discontinued product: OY1TA603P0003



Recommended successor product: P1PY201

Termination as of: 30.06.2025

Key differences

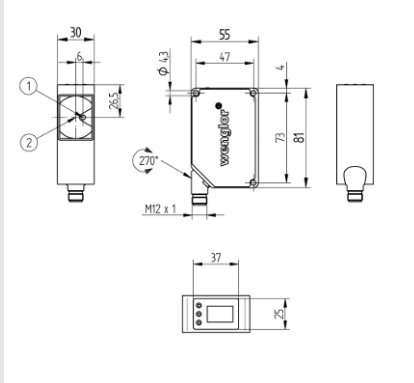
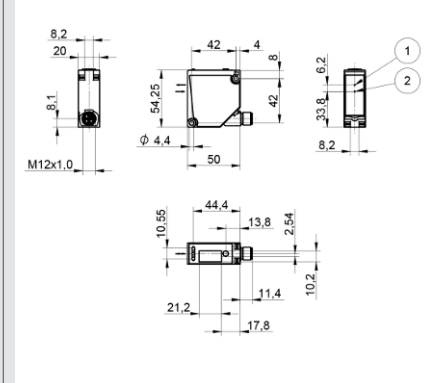
- The successor product has a 5-pin M12 plug.
- The successor product has a smaller format. Adapter Z1PC002 can be used to ensure mechanical compatibility.

Below you will find the detailed product comparison:

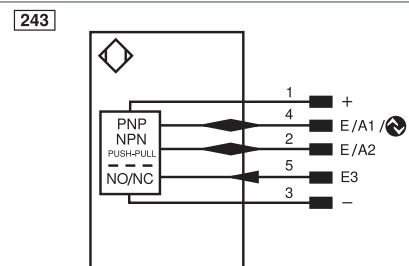
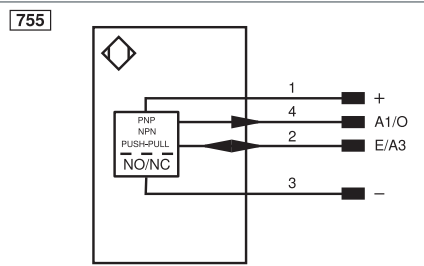
	Discontinued product OY1TA603P0003	Successor product P1PY201
Photo of Product		
Optical data		
Working Range	0,2...6,2 m	0...10000 mm
Setting Range		50...10000 mm
Measuring Range	6 m	
Resolution	1...12 mm	
Reproducibility maximum		3 mm*
Linearity Deviation	30 mm	10 mm*
Linearity	0,5 %	
Switching Hysteresis	3...20 mm	< 15 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	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	50 Hz*
Switching Frequency (max.)		250 Hz*
Measuring Rate	1...100 /s	
Response Time	10...200 ms	15 ms *
Response Time (min.)		4,7 ms *

	Discontinued product OY1TA603P0003	Successor product P1PY201
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	0920381-000	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		
Analog Output	yes	
PNP NO	yes	yes
		* Depends on mode, see table 2 ** At max. 50,000 lux ambient light

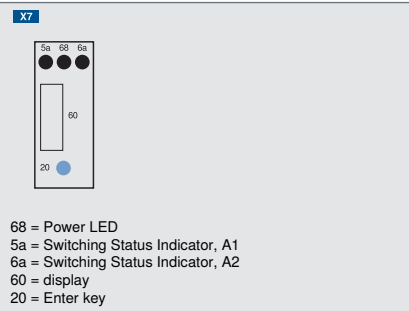
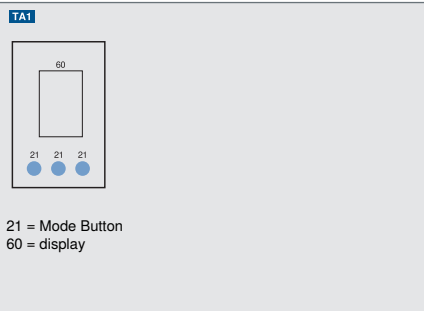
Technical drawings/connection diagrams/approvals

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

OY1TA603P0003

Table 1

Working Distance	0 m	6 m	
Light Spot Diameter	5 mm	< 12 mm	

P1PY201

Table 1

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