

Notice of Discontinuation

Y1TA100QXVT80

Laser Distance Sensor Time of Flight



EN

Notice of discontinuation

Discontinued product: Y1TA100QXVT80



Recommended successor product: P1PY201

Termination as of: 30.06.2025

Key differences

- The successor product has a 5-pin M12 plug. The existing connection equipment can continue to be used with the ZC4P001 adapter.
- The successor product has a smaller format. Adapter Z1PC002 can be used to ensure mechanical compatibility.

Below you will find the detailed product comparison:

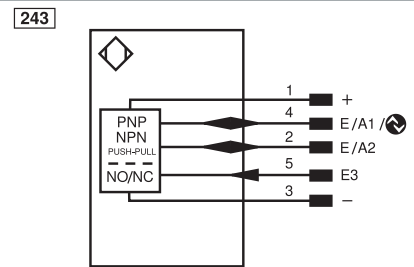
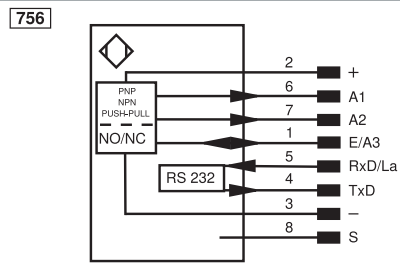
| | Discontinued product Y1TA100QXVT80 | Successor product P1PY201 |
|---|--|--|
| Photo of Product |  |  |
| Optical data | | |
| Working Range | 0,1...10,1 m | 0...10000 mm |
| Measuring Range | 10 m | |
| Resolution | 1...12 mm | |
| Reproducibility maximum | | 3 mm* |
| Linearity Deviation | 20 mm | 10 mm* |
| Linearity | 0,2 % | |
| Switching Hysteresis | 3...20 mm | < 15 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 (U _b = 24 V) | < 100 mA | < 60 mA |
| Switching Frequency | 50 Hz | 50 Hz* |
| Switching Frequency (max.) | | 250 Hz* |
| Measuring Rate | 1...100 /s | |
| Response Time | | 15 ms * |
| Response Time (min.) | | 4,7 ms * |

| | Discontinued product Y1TA100QXVT80 | 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 | 3 | 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 | RS-232 | 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 | |
| PNP NO | yes | yes |
| | | * Depends on mode, see table 2 ** At max. 50,000 lux ambient light |

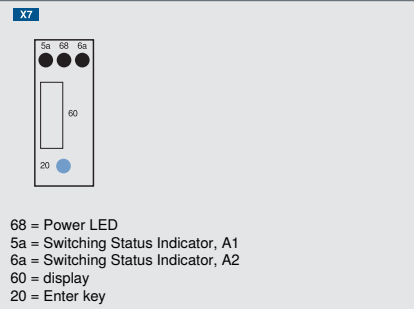
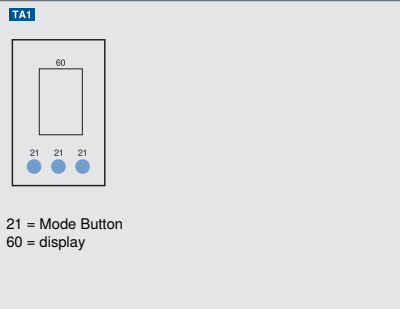
Technical drawings/connection diagrams/approvals

| 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

Y1TA100QXVT80

Table 1

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

P1PY201

Table 1

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