

Notice of Discontinuation

**OCP662X0080**

**Laser Distance Sensor Triangulation**



EN

# End-of-Life Notices

Discontinued product: OCP662X0080

Recommended Replacement Product: P1PC321

Discontinuation Date: 30.04.2027

## Key Differences

In the successor model, the optical axis has been shifted.

On the successor product, the switching point can be readjusted via the control panel, all other functions can be set via NCF or IO-Link.

The successor product has a 5-pin M12 plug. The existing connection equipment can continue to be used with the ZC4P001 adapter.

In the successor product, mounting is no longer done using slotted holes.

The successor product has an IO-Link interface instead of RS-232.

Below you will find a detailed product comparison:

|                                    | Discontinued Product<br>OCP662X0080 | Successor product<br>P1PC321 |
|------------------------------------|-------------------------------------|------------------------------|
| <b>Optical Data</b>                |                                     |                              |
| Range                              | 660 mm                              |                              |
| Working Range                      |                                     | 60...660 mm                  |
| Setting Range                      | 60...660 mm                         | 60...660 mm                  |
| Switching Hysteresis               | < 1 %                               | < 1 %                        |
| Light Source                       | Laser (red)                         | Laser (red)                  |
| Wavelength                         | 655 nm                              | 655 nm                       |
| Service Life (T = +25 °C)          | 100000 h                            | 100000 h                     |
| Laser Class (EN 60825-1)           | 1                                   | 1                            |
| Max. Ambient Light                 | 10000 Lux                           | 10000 Lux                    |
| <b>Technical Specifications</b>    |                                     |                              |
| Supply Voltage                     | 10...30 V DC                        | 18...30 V DC                 |
| Current Consumption (Ub = 24 V)    | < 50 mA                             | < 35 mA                      |
| Switching Frequency                | 100 Hz                              | 650 Hz                       |
| Response Time                      | < 5 ms                              | < 0.77 ms                    |
| On-/Off-Delay (RS-232)             | 0...1 s                             |                              |
| Temperature Drift                  | < 50 µm/K                           | < 150 µm/K                   |
| Temperature Range                  | -25...60 °C                         | -25...50 °C                  |
| Number of Switching Outputs        | 2                                   | 2                            |
| Switching Output Voltage Drop      | < 1.5 V                             | < 1.5 V                      |
| Switching Output/Switching Current | 200 mA                              | 100 mA                       |
| Short Circuit Protection           | yes                                 | yes                          |
| Reverse Polarity Protection        | yes                                 | yes                          |
| Overload Protection                |                                     | yes                          |
| Teach Mode                         | HT, VT, TP                          |                              |

|                               | Discontinued Product<br>OCP662X0080                                                              | Successor product<br>P1PC321                                                                   |
|-------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Interface                     | RS-232                                                                                           | IO-Link<br>NFC                                                                                 |
| Protection Class              | III                                                                                              | III                                                                                            |
| FDA Accession Number          | 1120728-000                                                                                      | 2512215-000                                                                                    |
| <b>Mechanical Data</b>        |                                                                                                  |                                                                                                |
| Setting Method                | Teach-In                                                                                         | Teach-In<br>NFC                                                                                |
| Housing Material              | Plastic, ABS<br>Plastic, PC                                                                      | Plastic, ABS                                                                                   |
| Optic Cover                   | Plastic, PMMA                                                                                    | Plastic, PMMA                                                                                  |
| Degree of Protection          | IP67                                                                                             | IP67<br>IP68                                                                                   |
| Connection                    | M12 × 1; 8-pin                                                                                   | M12 × 1; 5-pin                                                                                 |
| <b>General Specifications</b> |                                                                                                  |                                                                                                |
| Scope of delivery             | 1 × initial start-up instructions<br>1 × sensor                                                  | 1 × Z1PE002 mounting set<br>1 × initial start-up instructions<br>1 × sensor                    |
| <b>Output Functions</b>       |                                                                                                  |                                                                                                |
| Output                        | PNP<br>Error Output                                                                              | PNP                                                                                            |
| Circuit                       | NO                                                                                               | NO                                                                                             |
| <b>Adjustable Parameters</b>  |                                                                                                  |                                                                                                |
| Output                        | Error Output<br>Push-pull<br>NPN<br>PNP                                                          | Error Output<br>Push-pull<br>NPN<br>PNP                                                        |
| Circuit                       | NC<br>NC/NO<br>NO                                                                                | NC<br>NC/NO<br>NO                                                                              |
| Other parameters              | Off-delay<br>On-delay<br>Exposure time<br>Switching hysteresis<br>Emitted light<br>Teach-in mode | Exposure time<br>Laser light<br>Switching hysteresis<br>Teach-in mode<br>Off-delay<br>On-delay |

## light spot diameter

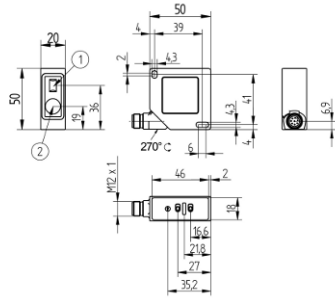
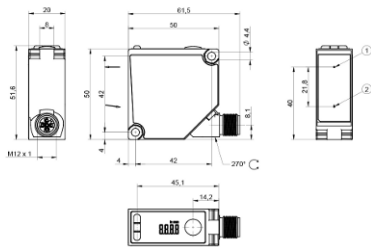
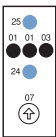
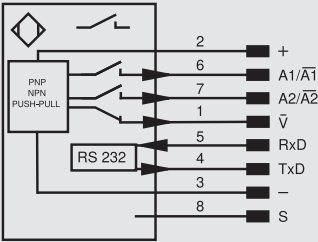
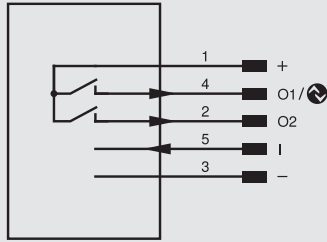
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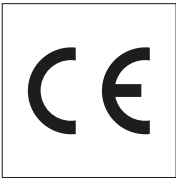
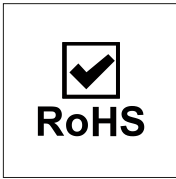
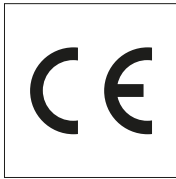
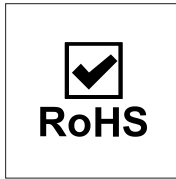
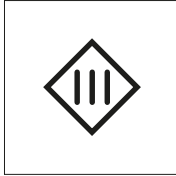
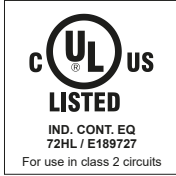
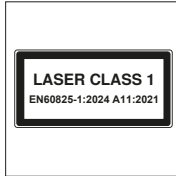
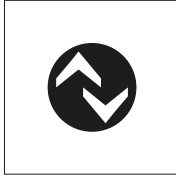
|                 |              |   |            |
|-----------------|--------------|---|------------|
| Detection Range | 60 mm        | - | 660 mm     |
| Spot Size       | 0,5 × 1,2 mm | - | 2 × 5,5 mm |

### P1PC321

|                  |              |            |              |
|------------------|--------------|------------|--------------|
| Working Distance | 60 mm        | 360 mm     | 660 mm       |
| Spot Size        | 1,5 × 3,5 mm | 1,3 × 5 mm | 1,1 × 6,7 mm |

Product Images/Technical Drawings/Connection Diagrams/Certifications

|                    | Discontinued Product<br>OCP662X0080                                                                                                                                                                                     | Successor Product<br>P1PC321                                                                                                                                                                                                                              |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Image      |                                                                                                                                        |                                                                                                                                                                        |
| Dimensioned image  |  <p>① Transmitter Diode<br/>② Receiver Diode<br/>Screw M4 = 0.5 Nm</p>                                                                 |  <p>① Transmitter Diode<br/>② Receiver Diode<br/>Screw M4 = 0.5 Nm</p>                                                                                                 |
| control panel      |  <p>24 = Plus Button<br/>25 = Minus Button<br/>07 = Selector Switch<br/>03 = Error Indicator<br/>01 = Switching Status Indicator</p> |  <p>06 = Teach Button<br/>5a = Switching Status Indicator, O1<br/>68 = Power LED<br/>6a = Switching Status Indicator, O2<br/>60 = display</p>                        |
| connection diagram |  <p>737</p>                                                                                                                         |  <p>1 = Supply voltage +<br/>2 = Switching output O2, PNP NO<br/>3 = Supply voltage 0 V<br/>4 = Switching output O1, IO-Link, PNP, NO<br/>5 = Input, active-high</p> |

|           | Discontinued Product<br>OCP662X0080                                               |                                                                                    | Successor Product<br>P1PC321                                                         |                                                                                     |
|-----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Approvals |  |  |   |  |
|           |  |  |   |  |
|           |  |  |   |  |
|           |                                                                                   |                                                                                    |  |                                                                                     |