

Notice of Discontinuation

**OHP102B0003**

**Laser Distance Sensor Triangulation**



EN

# End-of-Life Notices

Discontinued product: OHP102B0003

Recommended successor product: P1PC181

Discontinuation as of: 28.04.2026

## Key Differences

The successor model has a wider setting range.

The successor product has a larger light spot diameter.

On the successor product, a contamination/error output can be configured as NC or NO on pin 2 via IO-Link.

The successor product has a lower switching frequency.

The successor product has a 5-pin M12 plug.

Below you will find a detailed product comparison:

|                                            | Discontinued product<br>OHP102B0003 | Successor product<br>P1PC181 |
|--------------------------------------------|-------------------------------------|------------------------------|
| <b>Visual Data</b>                         |                                     |                              |
| Range                                      | 100 mm                              |                              |
| Working Range                              |                                     | 40...240 mm                  |
| Setting Range                              | 60...100 mm                         | 40...240 mm                  |
| Switching Hysteresis                       | < 400 µm                            | < 0.5 %                      |
| Light Source                               | Laser (red)                         | Laser (red)                  |
| Wavelength                                 | 660 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                    |
| Light Spot Diameter                        | < 0.6 mm                            |                              |
| Focus Distance                             | 110 mm                              |                              |
| <b>Technical Specifications</b>            |                                     |                              |
| Supply Voltage                             | 10...30 V DC                        | 18...30 V DC                 |
| Current Consumption (Ub = 24 V)            | < 30 mA                             | < 30 mA                      |
| Switching Frequency                        | 800 Hz                              | 650 Hz                       |
| Response Time                              | 650 µs                              | < 0.77 ms                    |
| Temperature Drift                          | < 15 µm/K                           | < 45 µm/K                    |
| Temperature Range                          | -25...60 °C                         | -25...60 °C                  |
| Number of Switching Outputs                |                                     | 1                            |
| Switching Output Voltage Drop              | < 2.5 V                             | < 1.5 V                      |
| Switching Output/Switching Current         |                                     | 100 mA                       |
| PNP Switching Output/Switching Current     | 200 mA                              |                              |
| PNP Contamination Output/Switching Current | 50 mA                               |                              |
| Short Circuit Protection                   | yes                                 | yes                          |
| Reverse Polarity Protection                | yes                                 | yes                          |
| Overload Protection                        | yes                                 | yes                          |

|                              | Discontinued product<br>OHP102B0003             | Successor product<br>P1PC181                                                                   |
|------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------|
| Interface                    |                                                 | IO-Link V1.1                                                                                   |
| Protection Class             | III                                             | III                                                                                            |
| FDA Accession Number         | 1120737-000                                     | 2512215-000                                                                                    |
| <b>Mechanical Data</b>       |                                                 |                                                                                                |
| Setting Method               | Potentiometer                                   | Teach-In<br>NFC                                                                                |
| Housing Material             | Plastic, PBT                                    | Plastic, ABS                                                                                   |
| Optic Cover                  | Glass                                           | Plastic, PMMA                                                                                  |
| Full Encapsulation           | yes                                             |                                                                                                |
| Degree of Protection         | IP67                                            | IP67<br>IP68                                                                                   |
| Connection                   | M12 × 1; 4-pin                                  | M12 × 1; 5-pin                                                                                 |
| <b>General Data</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>Contamination Output                     | PNP                                                                                            |
| Circuit                      | NO                                              | NC+NO                                                                                          |
| <b>Adjustable parameters</b> |                                                 |                                                                                                |
| Output                       |                                                 | Error Output<br>Push-pull<br>NPN<br>PNP                                                        |
| Circuit                      |                                                 | NC<br>NC/NO<br>NO                                                                              |
| Other parameters             |                                                 | Exposure time<br>Laser light<br>Switching hysteresis<br>Teach-in mode<br>Off-delay<br>On-delay |

### Light spot diameter

P1PC181

|                  |            |              |              |
|------------------|------------|--------------|--------------|
| Working Distance | 40 mm      | 140 mm       | 240 mm       |
| Spot Size        | 1,1 × 3 mm | 0,7 × 2,8 mm | 0,4 × 2,7 mm |

# Product images/Technical drawings/Connection diagrams/Certifications

|                    | Discontinued product<br>OHP102B0003                                                                                                       | Successor product<br>P1PC181                                                                                                                  |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Product image      |                                                                                                                                           |                                                                                                                                               |
| Dimensioned image  | <p>① Transmitter Diode<br/>② Receiver Diode<br/>Screw M4 = 1 Nm</p>                                                                       | <p>① Transmitter Diode<br/>② Receiver Diode<br/>Screw M4 = 0.5 Nm</p>                                                                         |
| control panel      | <p><b>P2</b></p> <p>01 = Switching Status Indicator<br/>05 = Switching Distance Adjuster<br/>32 = Contamination Warning/Error Warning</p> | <p><b>X14</b></p> <p>06 = Teach Button<br/>5a = Switching Status Indicator, O1<br/>68 = Power LED<br/>6a = Switching Status Indicator, O2</p> |
| connection diagram | <p><b>103</b></p>                                                                                                                         | <p><b>243</b></p>                                                                                                                             |

|           | Discontinued product<br>OHP102B0003                                               |                                                                                                  | Successor product<br>P1PC181                                                        |                                                                                                    |
|-----------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Approvals |  | <br><b>RoHS</b> |  | <br><b>RoHS</b> |
|           |  | <b>UK<br/>CA</b>                                                                                 |  | <b>UK<br/>CA</b>                                                                                   |
|           |  |                |  |                 |
|           |                                                                                   |                                                                                                  |  |                                                                                                    |