

Notice of Discontinuation

OCP242X0135

Laser Distance Sensor Triangulation



EN

End-of-Life Notices

Discontinued product: OCP242X0135

Recommended replacement product: P1PC121
P1PC181

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.

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 OCP242X0135	Successor Product P1PC121	Successor Product P1PC181
Optical Data			
Range	240 mm		
Working Range		40...240 mm	40...240 mm
Setting Range	40...240 mm	40...240 mm	40...240 mm
Switching Hysteresis	< 0.5 %	< 0.5 %	< 0.5 %
Light Source	Laser (red)	Laser (red)	Laser (red)
Wavelength	655 nm	655 nm	655 nm
Service Life (T = +25 °C)	100000 h	100000 h	100000 h
Laser Class (EN 60825-1)	1	1	1
Max. Ambient Light	10000 Lux	10000 Lux	10000 Lux
Technical Specifications			
Supply Voltage	10...30 V DC	18...30 V DC	18...30 V DC
Current Consumption (Ub = 24 V)	< 50 mA	< 35 mA	< 30 mA
Switching Frequency	300 Hz	650 Hz	650 Hz
Response Time	< 1.7 ms	< 0.77 ms	< 0.77 ms
On-/Off-Delay (RS-232)	0...1 s		
Temperature Drift	< 15 µm/K	< 45 µm/K	< 45 µm/K
Temperature Range	-25...60 °C	-25...50 °C	-25...60 °C
Number of Switching Outputs	2	2	1
Switching Output Voltage Drop	< 1.5 V	< 1.5 V	< 1.5 V
Switching Output/Switching Current	200 mA	100 mA	100 mA
Short Circuit Protection	yes	yes	yes
Reverse Polarity Protection	yes	yes	yes
Overload Protection		yes	yes

	Discontinued Product OCP242X0135	Successor Product P1PC121	Successor Product P1PC181
Teach Mode	HT, VT, FT, TP		
Interface	RS-232 with adapter box	IO-Link NFC	IO-Link NFC
Protection Class	III	III	III
FDA Accession Number	1120718-000	2512215-000	2512215-000
Mechanical Data			
Setting Method	Teach-In	Teach-In NFC	Teach-In NFC
Housing Material	Plastic, ABS Plastic, PC	Plastic, ABS	Plastic, ABS
Optic Cover	Plastic, PMMA	Plastic, PMMA	Plastic, PMMA
Degree of Protection	IP67	IP67 IP68	IP67 IP68
Connection	M12 × 1; 4-pin	M12 × 1; 5-pin	M12 × 1; 5-pin
General Specifications			
Scope of delivery	1 × initial start-up instructions 1 × sensor	1 × Z1PE002 mounting set 1 × initial start-up instructions 1 × sensor	1 × Z1PE002 mounting set 1 × initial start-up instructions 1 × sensor
Output Functions			
Output	PNP Error Output	PNP	PNP
Circuit	NO	NO	NC+NO
Adjustable Parameters			
Output	Error Output Push-pull NPN PNP	Error Output Push-pull NPN PNP	Error Output Push-pull NPN PNP
Circuit	NC NC/NO NO	NC NC/NO NO	NC NC/NO NO
Other parameters	Off-delay On-delay Exposure time Laser light Switching hysteresis Teach-in mode	Exposure time Laser light Switching hysteresis Teach-in mode Off-delay On-delay	Exposure time Laser light Switching hysteresis Teach-in mode Off-delay On-delay

light spot diameter

OCP242X0135

Detection Range	40 mm	-	240 mm
Spot Size	0,4 × 0,9 mm	-	1,1 × 2,3 mm

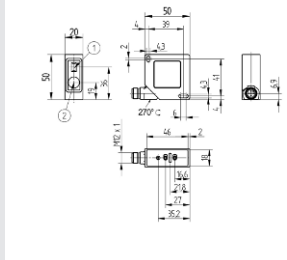
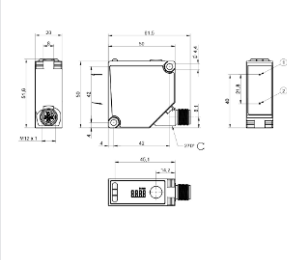
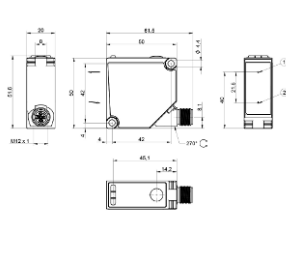
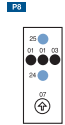
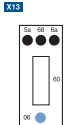
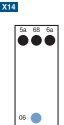
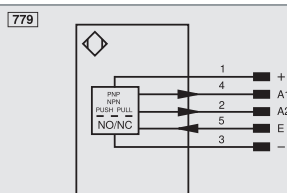
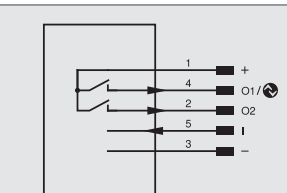
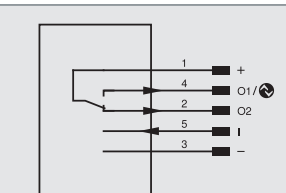
P1PC121

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

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/Approvals

	Discontinued Product OCP242X0135	Successor Product P1PC121	Successor product P1PC181
Product image			
Dimensioned image	 ① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm	 ① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm	 ① Transmitter Diode ② Receiver Diode Screw M4 = 0.5 Nm
control panel	 24 = Plus Button 25 = Minus Button 07 = Selector Switch 03 = Error Indicator 01 = Switching Status Indicator	 06 = Teach Button 5a = Switching Status Indicator, O1 68 = Power LED 6a = Switching Status Indicator, O2 60 = display	 06 = Teach Button 5a = Switching Status Indicator, O1 68 = Power LED 6a = Switching Status Indicator, O2
connection diagram	 779	 1 = Supply voltage + 2 = Switching output O2, PNP, NO 3 = Supply voltage 0 V 4 = Switching output O1, IO-Link, PNP, NO 5 = Input, active-high	 1 = Supply voltage + 2 = Switching output O2, PNP, antivalent 3 = Supply voltage 0 V 4 = Switching output O1, IO-Link, PNP, NO 5 = Input, active-high

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Approvals		