wenglor
the innovative family

Notice of Discontinuation

OCPS895

Laser Distance Sensor Triangulation



EN

Available as PDF file only
Version 1.0
www.wenglor.com

End-of-Life Notices

Discontinued product:	OCPS895
Recommended Replacement Product:	P1PC211 P1PC212
Discontinuation effective:	30.04.2027

Key Differences

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

On the successor product, the analog output cannot be switched between 4...20 mA and 0...10 V.
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 is a detailed product comparison:

	Discontinued Product OCPS895	Successor product P1PC212	Successor product P1PC211
Optical Data			
Working Range	50...350 mm	50...350 mm	50...350 mm
Measuring Range	300 mm	50...350 mm	50...350 mm
Reproducibility maximum	1200 µm	300 µm	300 µm
Reproducibility: 1 Sigma	400 µm	30 µm	30 µm
Linearity Deviation	1000 µm	600 µm	600 µm
Light Source	Laser (red)	Laser (red)	Laser (red)
Wavelength	660 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	18...30 V DC	18...30 V DC	18...30 V DC
Current Consumption (Ub = 24 V)	< 80 mA	< 35 mA	< 35 mA
Switching Frequency		650 Hz	650 Hz
Measuring Rate	500 /s	2500 /s	2500 /s
Measuring Rate (Resolution-Mode)	250 /s		
Response Time	< 2000 µs	< 0.77 ms	< 0.77 ms
Response Time (Resolution Mode)	< 4000 µs		
Temperature Drift	< 75 µm/K	< 60 µm/K	< 60 µm/K
Temperature Range	-25...50 °C	-25...50 °C	-25...50 °C
Analog Output	0...10 V	0...10 V	4...20 mA
Load Current Voltage Output	< 1 mA		

	Discontinued Product OCPS895	Successor product P1PC212	Successor product P1PC211
Current Output Load Resistance	< 500 Ohm		
Switching Output Voltage Drop		< 1.5 V	< 1.5 V
Switching Output/Switching Current		100 mA	100 mA
Short Circuit Protection		yes	yes
Reverse Polarity Protection		yes	yes
Overload Protection		yes	yes
Interface	RS-232	IO-Link NFC	IO-Link NFC
Transmission rate	38400 Bd		
Protection Class	III	III	III
FDA Accession Number		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; 8-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	Analog Output Error Output	Analog Output PNP	Analog Output PNP
Circuit		NO	NO
Adjustable Parameters			
Output		Error Output Push-pull NPN PNP	Error Output Push-pull NPN PNP
Circuit		NC NC/NO NO	NC NC/NO NO
Other parameters		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

OCPS895

Working Distance	50 mm	-	350 mm
Spot Size	0,4 × 1 mm	-	1,4 × 3,1 mm

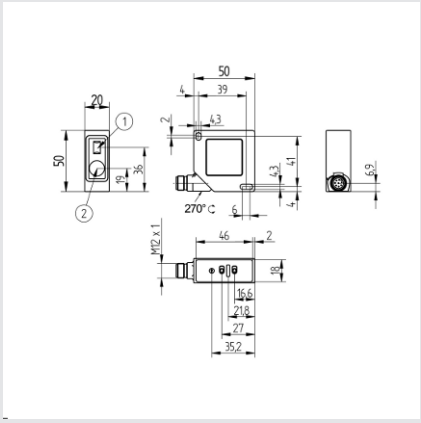
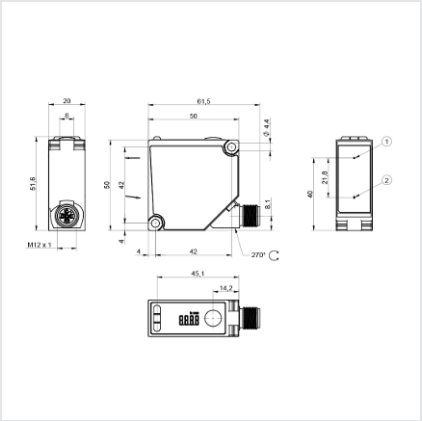
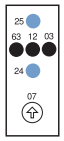
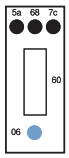
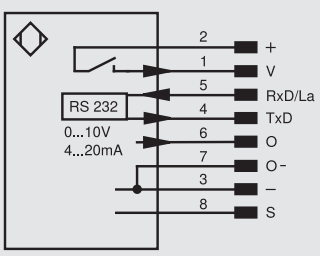
P1PC212

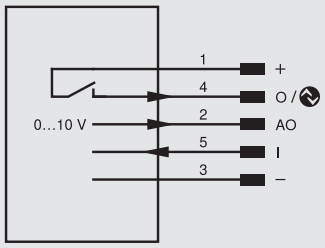
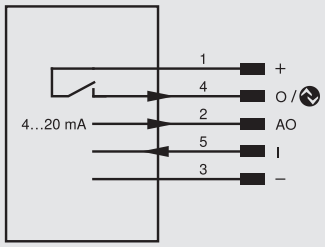
Working Distance	50 mm	200 mm	350 mm
Spot Size	1,3 × 3,1 mm	0,8 × 3,1 mm	0,4 × 3,1 mm

P1PC211

Working Distance	50 mm	200 mm	350 mm
Spot Size	1,3 × 3,1 mm	0,8 × 3,1 mm	0,4 × 3,1 mm

Product Images/Technical Drawings/Connection Diagrams/Certifications

	Discontinued Product OCPS895	Successor Product P1PC212 P1PC211
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
control panel	P7  03 = Error Indicator 07 = Selector Switch 12 = Analog Output Indicator 24 = Plus Button 25 = Minus Button 63 = Analog Output Current Indicator	X12  5a = Switching Status Indicator, O1 68 = Power LED 7c = Analog Output Indicator, AO 60 = display 06 = Teach Button
connection diagram	529 	P1PC212

	Discontinued Product OCPS895	Successor Product P1PC212 P1PC211
		 1 = Supply voltage + 2 = Analog output, 0...10 V 3 = Supply voltage 0 V 4 = Switching output, IO-Link, PNP, NO 5 = Input, active-high P1PC211  1 = Supply voltage + 2 = Analog output, 4...20 mA 3 = Supply voltage 0 V 4 = Switching output, IO-Link, PNP, NO 5 = Input, active-high

	Discontinued Product OCPS895		Successor Product P1PC212 P1PC211	
Approvals	