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Notice of Discontinuation
EP0L001
IO-Link Master Multiprotocol



EN

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

End-of-Life Notices

Discontinued product:	EP0L001
Recommended replacement product:	EP8E001 EP8P001
Discontinuation date:	31.12.2026

Key Differences

The successor models feature a plastic housing with a degree of protection IP67 instead of a zinc diecast housing with a degree of protection IP69K.

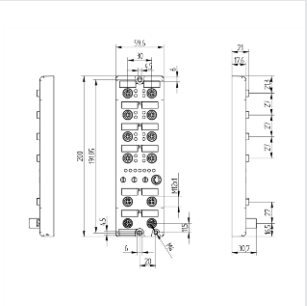
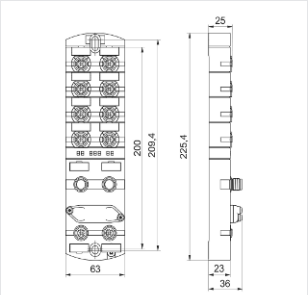
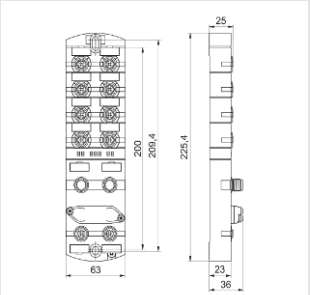
The successor products do not support multiprotocol, but rather either PROFINET (EP8P001) or EtherNet/IP (EP8E001).

Below you will find a detailed product comparison:

	Discontinued Product EP0L001	Successor product EP8P001	Successor product EP8E001
Electrical data			
Supply Voltage	18...30 V DC	18...30 V DC	18...30 V DC
Power consumption of device max.	0.18 A	0.18 A	0.18 A
Max. Switching Current Switching Outputs	0.5 A	2 A	2 A
Max. Switching Current Switching Outputs IO-Link	0.5 A	2 A	2 A
max. total current of the digital I/O ports	14 A	10 A	10 A
Sensor Supply Voltage (Pin 1)	500 mA	2 A	2 A
Switching Output Voltage Drop	< 2.5 V		
Temperature Range	-20...70 °C	-40...70 °C	-40...70 °C
Atmospheric humidity	98 % ambient humidity	≤95%	≤95%
Digital I/O ports short circuit protected	yes	yes	yes
Digital I/O ports overload protected	yes	yes	yes
Digital I/O ports reverse polarity protected	yes	yes	yes
Standard I/O-Pins	12	16	16
Number of IO-link ports	8	8	8
Inputs according to DIN EN 61131-2:2003	Type 1	Type 1 Type 3	Type 1 Type 3
Auto-Crossover	yes		
Auto-Negotiating	yes		
Auto-Polarity	yes		
Protection Class	III	III	III
Shock resistance per DIN IEC 68-2-27	50 g / 11 ms	50 g / 11 ms	50 g / 11 ms

	Discontinued Product EP0L001	Successor product EP8P001	Successor product EP8E001
Vibration resistance per DIN IEC 60068-2-6	15 g (5...500 Hz)	20 g (58...150 Hz)	20 g (58...150 Hz)
Mechanical data			
Setting Method	Web server	Web server	Web server
Housing Material	Zinc diecasting	Plastic, PBT/PC	Plastic, PBT/PC
Degree of Protection	IP65 IP67 IP69K	IP67	IP67
Type of connection digital I/O ports	M12 × 1; 4-pin	8 × M12 × 1; 5-pin, A-coded	8 × M12 × 1; 5-pin, A-coded
Type of Connection Power	2× M12; 5-pin, L-cod.	2 × M12 × 1; 5-pin, L-coded	2 × M12 × 1; 5-pin, L-coded
Type of Connection Industrial Ethernet Ports	2× M12; 4-pin, D-cod.	2 × M12 × 1; 5-pin, D-coded	2 × M12 × 1; 5-pin, D-coded
General data			
Scope of delivery	1 × IO-Link master	1 × IO-Link master	1 × IO-Link master
Industrial Communication			
Interface	EtherNet/IP IO-Link PROFINET I/O, CC-C	IO-Link PROFINET I/O, CC-C PROFINET	IO-Link EtherNet/IP
Number of Industrial Ethernet Ports	2 × M12, 4-pin	2 × M12, 5-pin	2 × M12, 5-pin
IIoT functions		MQTT OPC UA REST API Web server wenglor IODD on board	MQTT OPC UA REST API Web server
Number of I/Os	12 × switchable	16 × switchable	16 × switchable
Communication Mode IO-Link	SIO, COM1, COM2, COM3	SIO, COM1, COM2, COM3	SIO, COM1, COM2, COM3
Interface	Ethernet	Ethernet	Ethernet
IO-Link Version	1.1	1.1	1.1
IO-link port		Class A Class B	Class A Class B
Transmission rate	100 Mbit/s	100 Mbit/s	100 Mbit/s
Transmission Mode	Full Duplex	Full Duplex	Full Duplex
Switch Mode	Store & Forward		
VLAN Prioritization	yes		
Default IP	192.168.100.1		

Technical Drawings/Connection Diagrams/Certifications

	Discontinued product EP0L001	Successor product EP8P001	Successor product EP8E001
Product image			
Dimensional drawing			
Approvals	CE, RoHS, UKCA,	CE, RoHS, UKCA, cULus LISTED IND. CONT. EQ E480617	CE, RoHS, UKCA, cULus LISTED IND. CONT. EQ E480617

Connection table:

EP0L001

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Socket 1 **Suitable Plug:** 2

Ports X1-X4

PIN	Function
1	L+ IO-Link sensor powerd supply 24 V
2	In-x Ch. B: Digital input (type 1)
3	L- IO-Link sensor supply GND_US
4	C/Q Ch. A. IO-Link data communication
5	nc



Socket 2 **Suitable Plug:** 51

Ports X01, X02

PIN	Function	In/Out
1	TxD (+)	Out
2	RxD (+)	In
3	TxD (–)	Out
4	RxD (–)	In



Socket 3 **Suitable Plug:** 3 3s

Ports X03, X04

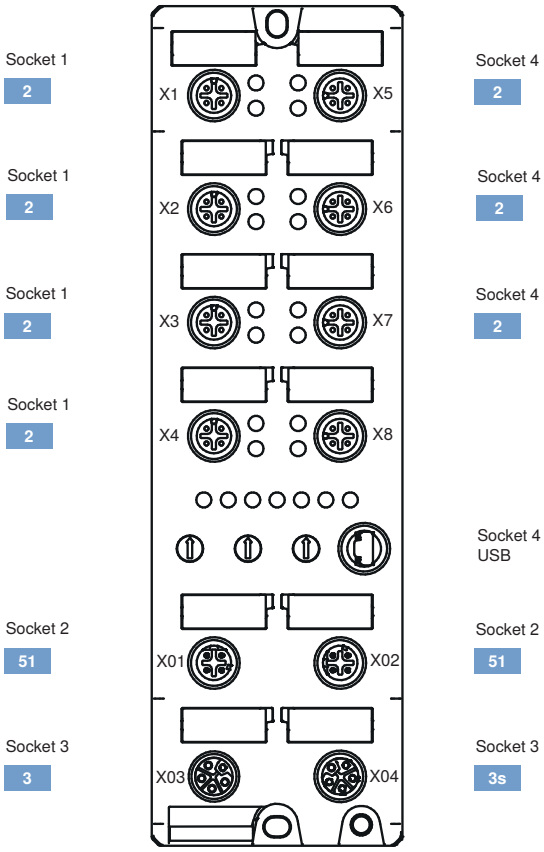
PIN	Function
1	US power supply (24 V) Sensor/system
2	GND_U_{Aux} Ground/referenc potential U_{Aux}
3	GND_US Ground/reference potential US
4	U_{Aux} (24 V) Auxiliary supply (electrical isolatet)
5	FE (PE) Functional ground



Socket 4 **Suitable Plug:** 2

Port X5 - X8

PIN	Function
1	L+ IO-Link sensor power supply 24 V
2	U_{Aux} (24 V) Ch. B: Auxiliary power supply (electrically isolatet with respect to the sensor/system power supply)
3	L- IO Link sensor supply GND_US
4	C/Q Ch. A: IO-Link data communication
5	GNDU_{Aux} Ground/reference potential U_{Aux}



EP8P001 and EP8E001

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Socket 1 **Suitable Plug:** 2

Ports X0-X7

PIN	Function
1	24 V DC
2	DI/DO
3	0 V
4	DI/DO/IO-Link
5	0 V



Socket 2 **Suitable Plug:** 3s

Ports XD1

PIN	Function
1	24 V DC
2	0 V
3	0 V
4	24 V DC
5	GND



Socket 3 **Suitable Plug:** 3

Ports XD2

PIN	Function
1	24 V DC
2	0 V
3	0 V
4	24 V DC
5	GND



Socket 4 **Suitable Plug:** 4

Ports XF1 - XF2

PIN	Function
1	TD +
2	RD +
3	TD -
4	RD -
5	n.c.

