

AL1421



IO-Link master with EtherNet/IP interface

IO-Link Master PFL EIP 4P IP69K



Application		
Application		hygienic systems; I/O modules for field applications
Daisy-chain function		подача напруги; fieldbus interface
Electrical data		
Operating voltage	[V]	20...28 DC; (US ; to SELV/PELV)
Current consumption	[mA]	300...3900; (US)
Protection class		III
Additional voltage supply	[V]	20...30 DC; (UA)
Actuator supply UA		
Max. current load total	[A]	8
Current rating per port	[A]	2; (adjustable: 0...2; Factory setting: 2)
Sensor supply US		
Max. current load total	[A]	3.6
Current rating per port	[A]	2; (adjustable: 0...2; Factory setting: 0,45)
Inputs / outputs		
Total number of inputs and outputs		12; (configurable)



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Number of inputs and outputs		Number of digital inputs: 4; Number of digital outputs: 8	
Inputs			
Number of digital inputs		4; (IO-Link Port Class B: 4 x 1)	
Switching level high [V]		11...30	
Switching level low [V]		0...5	
Digital inputs protected against short circuits		yes	
Outputs			
Number of digital outputs		8; (IO-Link Port Class B: 4 x 2)	
Short-circuit proof		yes	
Actuator supply UA			
Max. current load per output [mA]		2000	
Sensor supply US			
Max. current load per output [mA]		2000	
Interfaces			
Communication interface		Ethernet; IO-Link	
Ethernet - EtherNet/IP			
Transmission standard		10Base-T; 100Base-TX	
Transmission rate		10 MBit/s; 100 MBit/s	
Protocol		EtherNet/IP	
Factory settings		IP address: 192.168.1.250	
		subnet mask: 255.255.255.0	
		gateway IP address: 0.0.0.0	
		MAC address: see type label	
Note on interfaces		DHCP, BOOTP, static	
		DLR (Device Level Ring)	
		Supported network topologies: line	
		ring	
IO-Link Master			
Transmission type		COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud)	
IO-Link revision		1.1	
Number of ports class B		4	
Operating conditions			
Ambient temperature [°C]		-25...60	
Storage temperature [°C]		-25...85	
Max. relative air humidity [%]		90	
Protection		IP 65; IP 66; IP 67; IP 69K; (operation with stainless steel protective caps: IP 69K)	
Protection rating (NEMA 250)		6P	
Pollution degree		2	
Chemical media		ISO 16750-5	HLP, CC, DB, DC, DD, CA
		NEMA 250 5.13.1	AA
Tests / approvals			
EMC		EN 61000-6-2	
		EN 61000-6-4	



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Shock resistance	DIN EN 60068-2-27	
Vibration resistance	DIN EN 60068-2-64 2009-04	
	DIN EN 60068-2-6 2008-10	
MTTF	[ANN]	60

Mechanical data		
Weight	[g]	351.8
Materials	housing: PA grey; socket: stainless steel (1.4404 / 316L)	
Sealing material	EPDM	

Аксессуары		
Items supplied	Protective cap: 1 x M12, stainless steel, E12542	

Remarks		
Remarks	For further information please see the operating instructions.	
Pack quantity	1 pcs.	

Electrical connection

Electrical connection - Ethernet

Connector: M12; coding: D; Sealing: EPDM

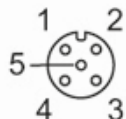


IN / OUT XF1, XF2

1	TX +
2	RX +
3	TX -
4	RX -
5	not used

Electrical connection - Process connection

Connector: M12; coding: A; Sealing: EPDM



IO-Link Port Class B X1...X4

1	Sensor supply (US) L +
2	actuator supply / digital output (UA) L+
3	Sensor supply (US) L-
4	C/Q IO-Link
5	actuator supply (UA) L-



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Electrical connection - подача напруги IN

Connector: M12; coding: L



XD1

1	+ 24 V DC (US) brown
2	GND (UA) white
3	GND (US) blue
4	+ 24 V DC (UA) black
5	FE grey

Electrical connection - подача напруги OUT

Connector: M12; coding: L; Sealing: EPDM



XD2

1	+ 24 V DC (US) brown
2	GND (UA) white
3	GND (US) blue
4	+ 24 V DC (UA) black
5	FE grey