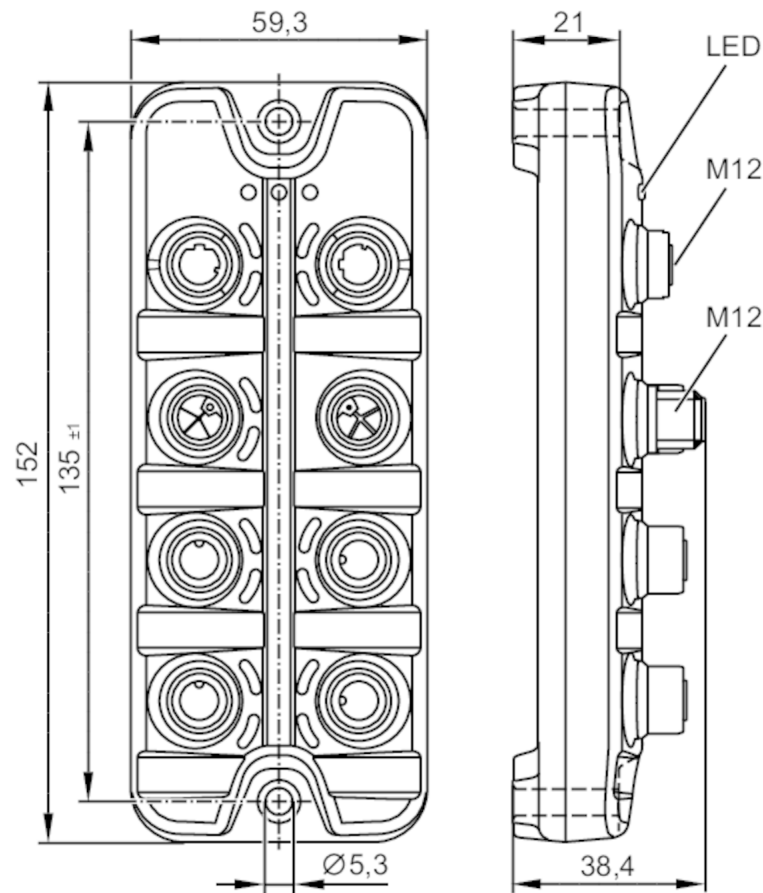


AL1401



IO-Link master with PROFINET interface

IO-Link Master PFL PN 4P IP69K



Application

Application	hygienic systems; I/O modules for field applications
Daisy-chain function	power supply; 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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IO-Link master with PROFINET interface

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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 - PROFINET			
Transmission standard		100Base-TX	
Transmission rate		100 MBit/s	
Protocol		PROFINET	
Factory settings		IP address: 0.0.0.0	
		subnet mask: 0.0.0.0	
		gateway IP address: 0.0.0.0	
		MAC address: see type label	
Note on interfaces		IO-Link Integration Edition 2	
		CC-C (Conformance Class C) (IRT-Switch)	
		S2 redundancy	
		Netload Class III	
		CiR (Configuration in Run)	
		SNMP (Simple Network Management Protocol)	
		MRP (Media Redundancy Protocol)	
		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	

AL1401



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Chemical media	ISO 16750-5	HLP, CC, DB, DC, DD, CA
	NEMA 250 5.13.1	AA
	DIN EN ISO 175, Ecolab test method 40-1	
	the following media were tested for 28 days at constant room temperature using the dipping test method	P3-topax 990
		Topactive 200
		Topactive 500
		Topactive OKTO

Tests / approvals

EMC	EN 61000-6-2	
	EN 61000-6-4	
Shock resistance	DIN EN 60068-2-27	
Vibration resistance	DIN EN 60068-2-64 2009-04	
	DIN EN 60068-2-6 2008-10	
MTTF [years]	60	

Mechanical data

Weight [g]	321.9
Housing	rectangular
Type of mounting	backplane mounting
Dimensions [mm]	152 x 59.3 x 38.4
Materials	housing: PA grey; socket: stainless steel (316L/1.4404)
Sealing material	EPDM

Accessories

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

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

Electrical connection - Ethernet

Connector: 2 x M12; coding: D; Sealing: EPDM



IN / OUT XF1, XF2

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

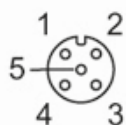


IO-Link master with PROFINET interface

IO-Link Master PFL PN 4P IP69K

Electrical connection - IO-Link

Connector: 4 x 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-

Electrical connection - power supply IN

Connector: 1 x 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 - power supply OUT

Connector: 1 x 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