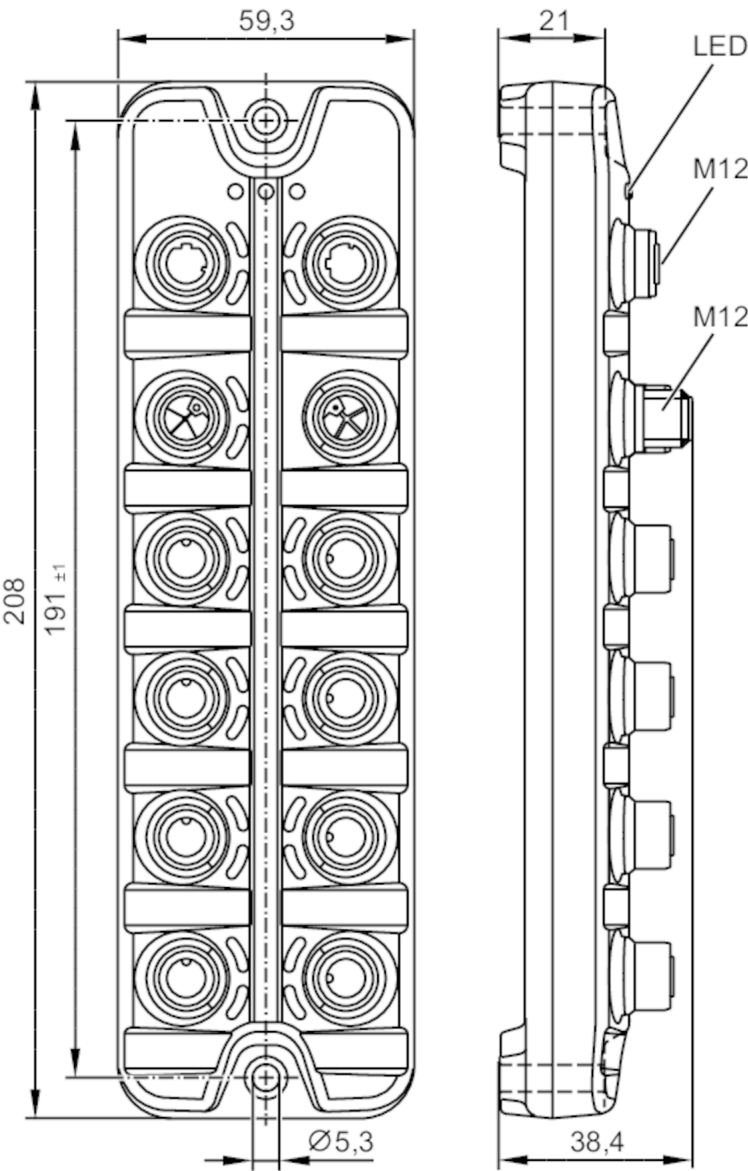


AL4303



Ethernet module with PROFINET interface

ETH Module PFL PN 8DO 8DI 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
Protection class		III
Additional voltage supply	[V]	20...28 DC; (UA)
Actuator supply UA		
Max. current load total	[A]	8



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Current rating per port	[A]	3.6	
Sensor supply US			
Max. current load total	[A]	3.6	
Current rating per port	[A]	3.6	
Inputs / outputs			
Number of inputs and outputs		Number of digital inputs: 8; Number of digital outputs: 8	
Inputs			
Number of digital inputs		8; (type 2 according to IEC 61131-2)	
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	
Short-circuit proof		yes	
Actuator supply UA			
Max. current load per output	[mA]	3600	
Software / programming			
Parameter setting options		counter function	
Functions and parameters	function	CTU (Up Counter), CTD (Down Counter), CTUD (Up-Down Counter), CTDIR (Direction Counter)	
	switching function (SSC)	single point, two point, window, latch	
	number	4 (1 counter for each input port)	
	count frequency	4500 Hz	
	main counter	32 Bit (0...4.294.967.295)	
	batch counter	16 Bit (0...65.535)	
Interfaces			
Communication interface		Ethernet	
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	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		

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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	
Shock resistance	DIN EN 60068-2-27	
Vibration resistance	DIN EN 60068-2-64 2009-04	
	DIN EN 60068-2-6 2008-10	

Mechanical data		
Weight	[g]	434.1
Materials	housing: PA grey; socket: stainless steel (316L/1.4404)	
Sealing material	EPDM	

Accessories		
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 - Ethernet

Connector: M12; coding: D; Sealing: EPDM



IN / OUT XF1, XF2		
1	TX +	
2	RX +	
3	TX -	
4	RX -	
5	not used	

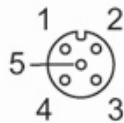


Ethernet module with PROFINET interface

ETH Module PFL PN 8DO 8DI IP69K

Electrical connection - Process connection

Connector: M12; coding: A; Sealing: EPDM



Digital Output X1...X4

1	not used
2	digital output 2 (UA) L+
3	GND (UA)
4	digital output 1 (UA) L+
5	functional earth

Digital Input X5...X8

1	Sensor supply (US) L+
2	digital input 2
3	Sensor supply (US) L-
4	digital input 1
5	functional earth

Electrical connection - power supply 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 - power supply OUT

Connector: M12; coding: L; Sealing: EPDM



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Ethernet module with PROFINET interface

ETH Module PFL PN 8DO 8DI IP69K

XD2	
1	+ 24 V DC (US) brown
2	GND (UA) white
3	GND (US) blue
4	+ 24 V DC (UA) black
5	FE grey