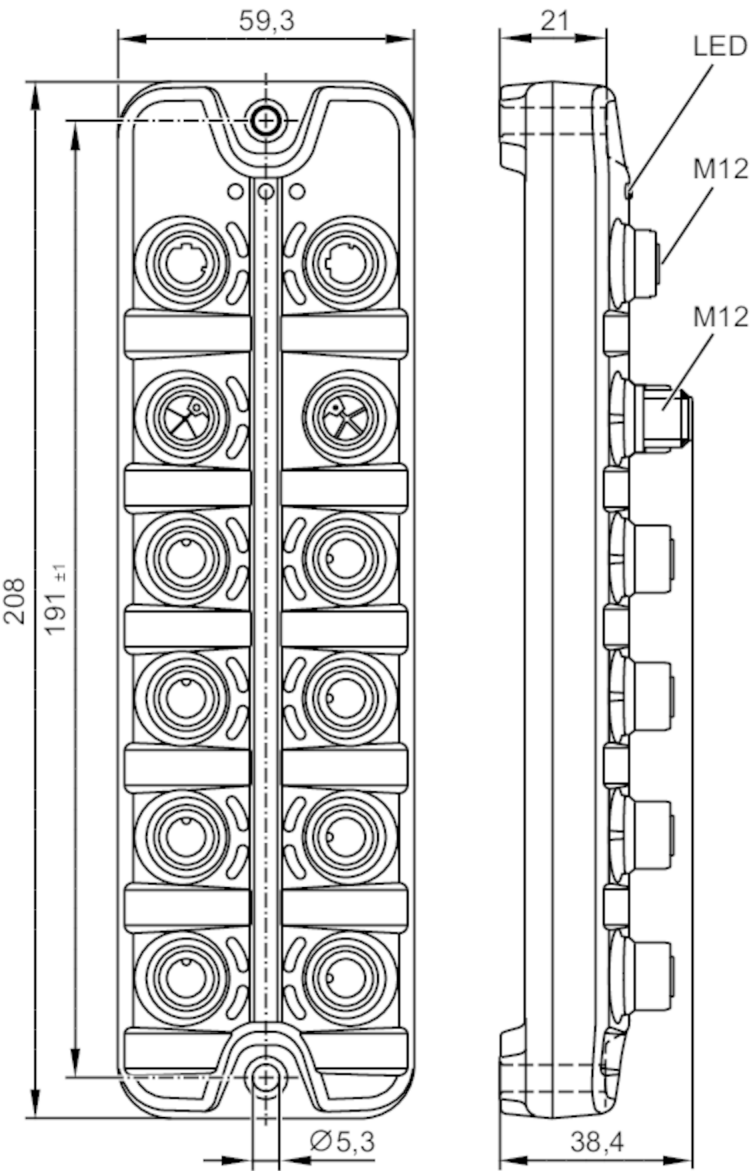


AL4143



Ethernet module with Modbus TCP interface

ETH Module PFL MB 16DI IP69K



Depending on the version some LEDs are inactive



Application		
Application		hygienic systems; I/O modules for field applications
Daisy-chain function		power supply; fieldbus interface
Electrical data		
Operating voltage	[V]	20...30 DC; (US ; to SELV/PELV)
Current consumption	[mA]	200...3900; (US)
Protection class		III
Sensor supply US		
Max. current load total	[A]	3.6



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Inputs / outputs		
Number of inputs and outputs	Number of digital inputs: 16	
Inputs		
Number of digital inputs	16; (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	
Software / programming		
Parameter setting options	counter function	
Functions and parameters	function	CTU (Up Counter), CTD (Down Counter), CTUD (Up-Down Counter), CTDIR (Direction Counter)
	number	8 (1 counter for each 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 - Modbus TCP		
Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10 MBit/s; 100 MBit/s	
Protocol	Modbus TCP	
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	
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]	438.1	
Materials	housing: PA grey; socket: stainless steel (316L/1.4404)	
Sealing material	EPDM	



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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

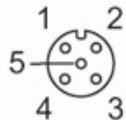


IN / OUT XF1, XF2

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

Electrical connection - Process connection

Connector: M12; coding: A; Sealing: EPDM



Digital Input X1...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





Ethernet module with Modbus TCP interface

ETH Module PFL MB 16DI IP69K

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



XD2

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