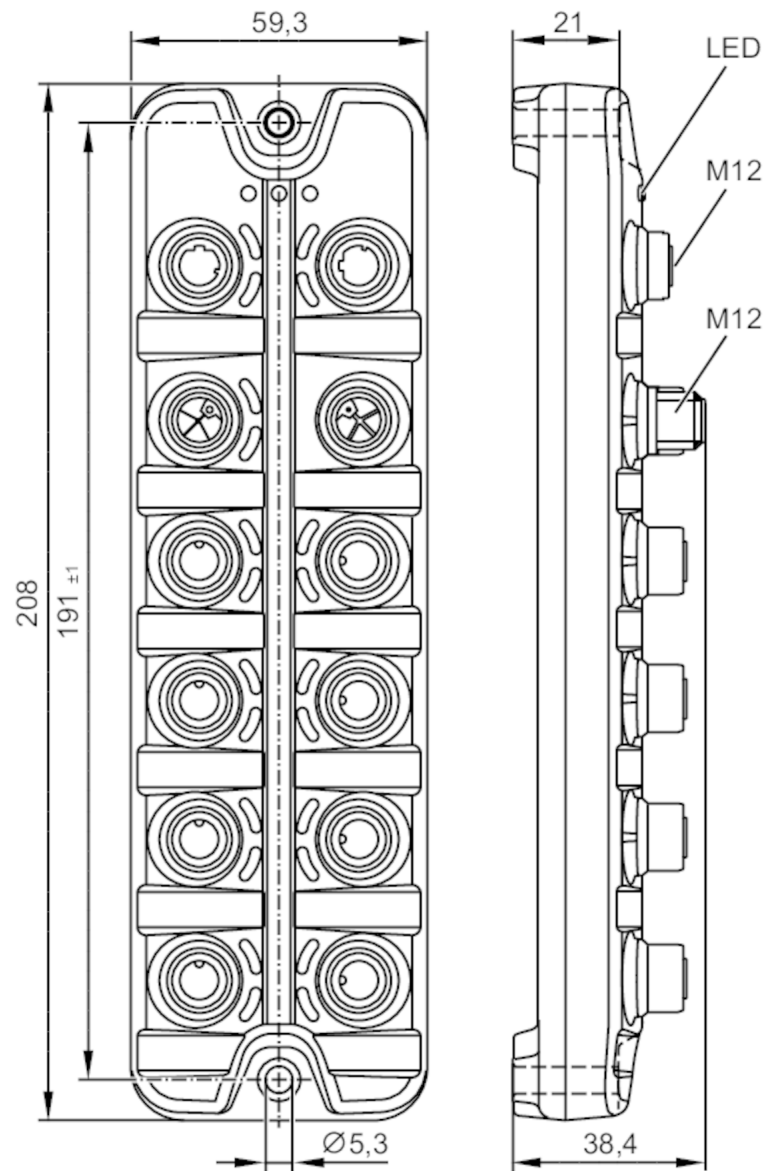


AL4103



Ethernet module with PROFINET interface

ETH Module PFL PN 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...28 DC; (US ; to SELV/PELV)
Current consumption	[mA] 200...3900; (cULus: 200 ... 3500; US)
Protection class	III
Max. current load total	[A] 3.6
Overall current rating (UL)	[A] 3.2



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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 - 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	
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

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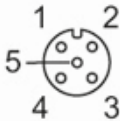
Tests / approvals		
EMC	EN 61000-6-2	
	EN 61000-6-4	
Shock resistance	DIN EN 60068-2-27	
Vibration resistance	DIN EN 60068-2-64 2009-04	
	DIN EN 60068-2-6 2008-10	
MTTF	[years]	129

Mechanical data		
Weight	[g]	437.2
Housing		rectangular
Type of mounting		backplane mounting
Dimensions	[mm]	208 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
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 - inputs / outputs	
Connector: M12; coding: A; Sealing: EPDM	
	



Ethernet module with PROFINET interface

ETH Module PFL PN 16DI IP69K

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



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