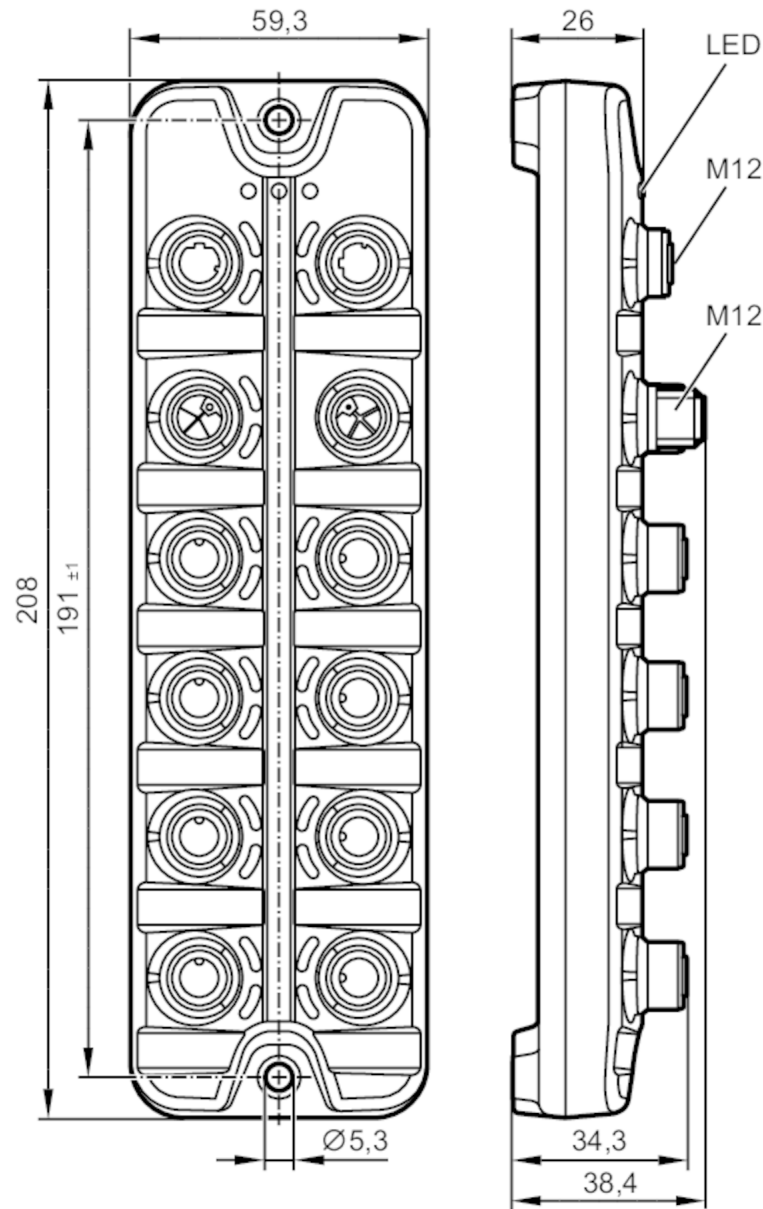


AL4102



Ethernet module with PROFINET interface

ETH Module PFL PN 16DI IP67



Depending on the version some LEDs are inactive



Application

Application	I/O modules for field applications
Daisy-chain function	подача напруги; fieldbus interface

Electrical data

Operating voltage	[V]	20...30 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
Protection rating (NEMA 250)		6P
Pollution degree		2
Chemical media	ISO 16750-5	AA, BA, BD, 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	[ANN]	129

Mechanical data

Weight	[g]	424.4
Materials	housing: PA orange; socket: brass nickel-plated	
Sealing material	FKM	

Remarks

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

Electrical connection - Ethernet

Connector: M12; coding: D; Sealing: FKM

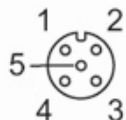


IN / OUT XF1, XF2

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

Electrical connection - Process connection

Connector: M12; coding: A; Sealing: FKM



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



Ethernet module with PROFINET interface

ETH Module PFL PN 16DI IP67

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: FKM



XD2

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