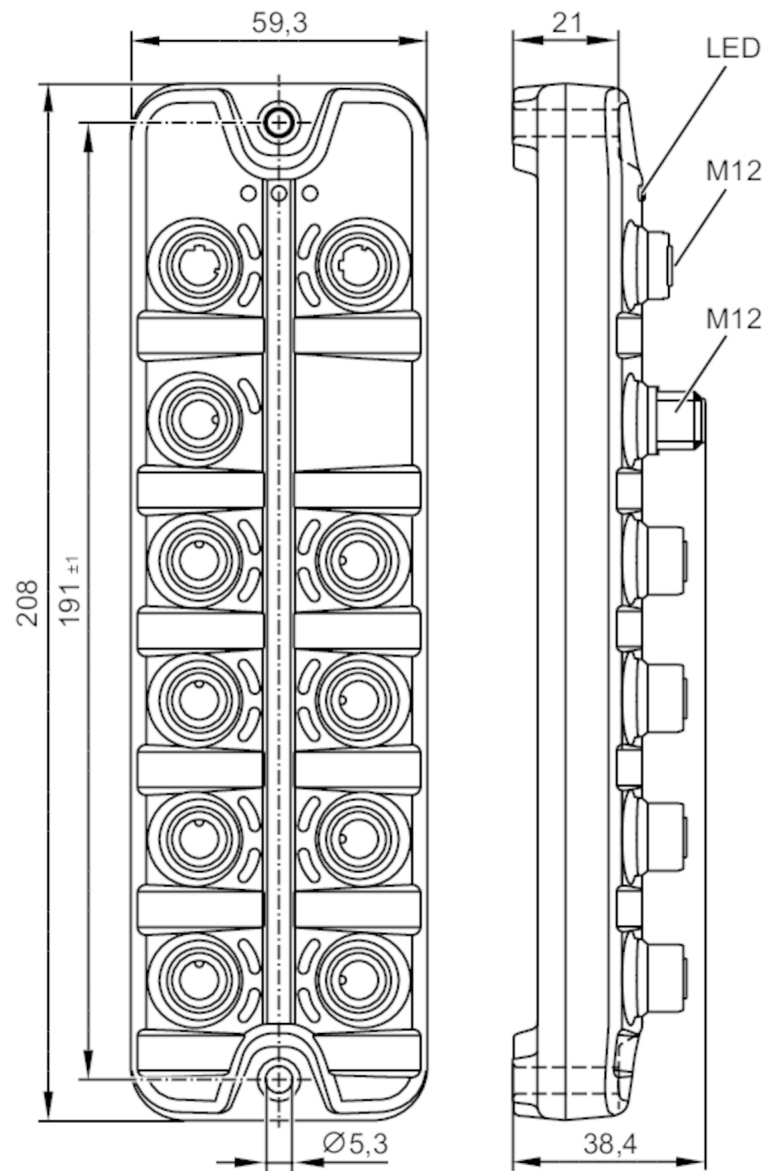


AL4002



Ethernet module with PROFINET interface

ETH Module SL PN 16DI IP67



Application		
Application		I/O modules for field applications
Daisy-chain function		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	
	CC-C (Conformance Class C) (IRT-Switch)	
Note on interfaces	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	[years]	130

Mechanical data		
Weight	[g]	406.9
Housing		rectangular
Type of mounting		backplane mounting
Dimensions	[mm]	208 x 59.3 x 38.4
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

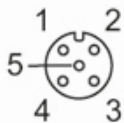


IN / OUT X21, X22

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

Electrical connection - inputs / outputs

Connector: M12; coding: A





Ethernet module with PROFINET interface

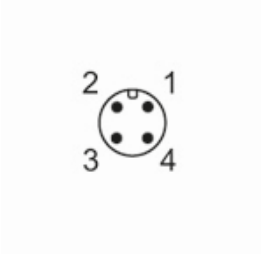
ETH Module SL PN 16DI IP67

Digital Input X01...X08

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

Connector: M12; coding: A



X31

1	+ 24 V DC (US)
2	not used
3	GND (US)
4	not used