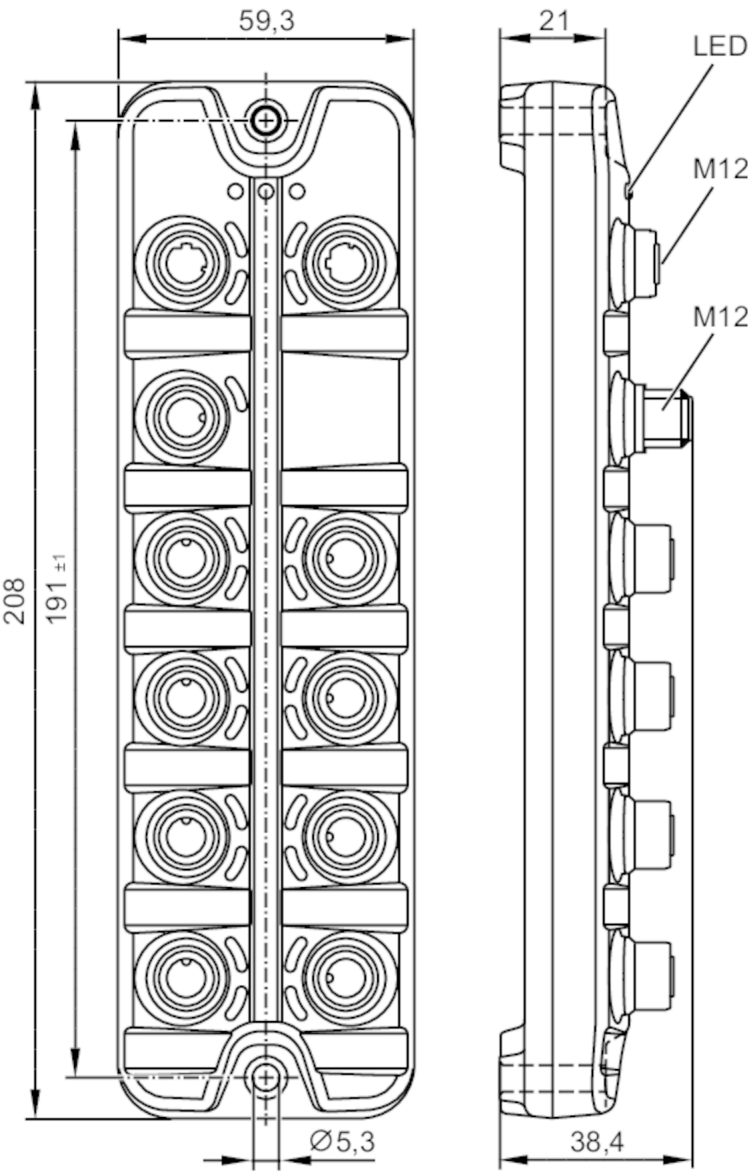


AL4002



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	
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	
Degree of soiling		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
Material		housing: PA orange; Socket: brass nickel-plated
Sealing material		FKM

Remarks		
Remarks		Further information is available in the manual.
Pack quantity		1 pcs.

Electrical connection - Ethernet

Connector: M12; coding: D; sealing: FKM

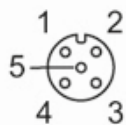


IN / OUT X21, X22

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

Electrical connection - inputs / outputs

Connector: M12; coding: A



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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 - voltage supply

Connector: M12; coding: A



X31	
1	+ 24 V DC (US)
2	not used
3	GND (US)
4	not used