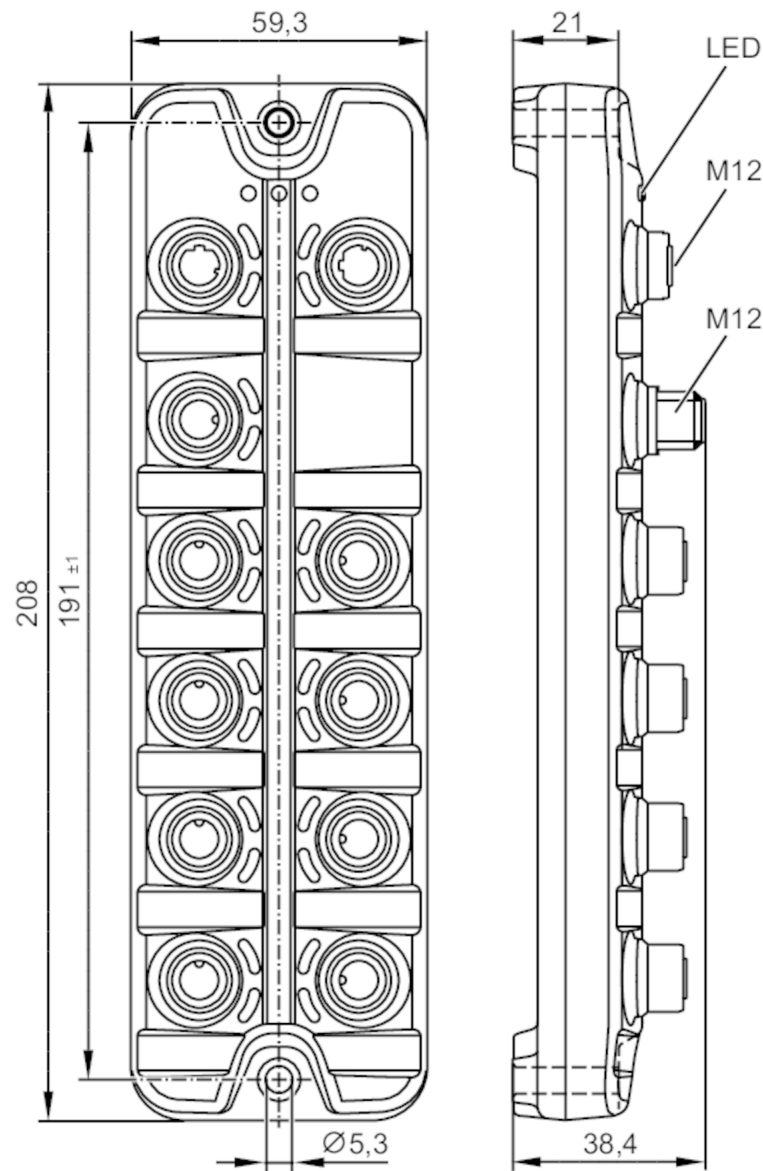


AL4203



Ethernet module with PROFINET interface

ETH Module SL PN 8DO 8DI IP69K



Application

Application	hygienic systems; I/O modules for field applications
Daisy-chain function	fieldbus interface

Electrical data

Operating voltage	[V]	20...28 DC; (US ; to SELV/PELV)
Current consumption	[mA]	300...3900
Protection class		III
Additional voltage supply	[V]	20...28 DC; (UA)

Actuator supply UA

Max. current load total	[A]	4
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Current rating per port	[A]	3.6
Sensor supply US		
Max. current load total	[A]	3.6
Current rating per port	[A]	3.6
Inputs / outputs		
Number of inputs and outputs	Number of digital inputs: 8; Number of digital outputs: 8	
Inputs		
Number of digital inputs	8; (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	
Outputs		
Number of digital outputs	8	
Short-circuit proof	yes	
Actuator supply UA		
Max. current load per output	[mA]	3600
Software / programming		
Parameter setting options	Counter function	
Functions and parameters	Function	CTU (Up Counter), CTD (Down Counter), CTUD (Up-Down Counter), CTDIR (Direction Counter)
	switching function (SSC)	single point, two point, window, latch
	number	4 (1 counter for each input 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	

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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	
Degree of soiling	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]	424.9
Housing	rectangular	
Type of mounting	Backplane mounting	
Dimensions	[mm]	208 x 59.3 x 38.4
Material	housing: PA grey; Socket: stainless steel (1.4404 / 316L)	
Sealing material	EPDM	

Accessories	
Items supplied	Protective cap: 1 x M12, stainless steel, E12542

Remarks	
Remarks	Further information is available in the manual.
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:	n.c.

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Ethernet module with PROFINET interface

ETH Module SL PN 8DO 8DI IP69K

Electrical connection - inputs / outputs

Connector: M12; coding: A; sealing: EPDM



Digital Output X1...X4

- | | |
|----|---------------|
| 1: | n.c. |
| 2: | OUT2 DO2 (UA) |
| 3: | L - (UA) |
| 4: | OUT1 DO1 (UA) |
| 5: | FE |

Digital Input X5...X8

- | | |
|----|----------|
| 1: | L + (US) |
| 2: | IN2 DI2 |
| 3: | L - (US) |
| 4: | IN1 DI1 |
| 5: | FE |

Electrical connection - voltage supply IN

Connector: M12; coding: A



XD1

- | | |
|----|----------|
| 1: | L + (US) |
| 2: | L - (UA) |
| 3: | L - (US) |
| 4: | L + (UA) |