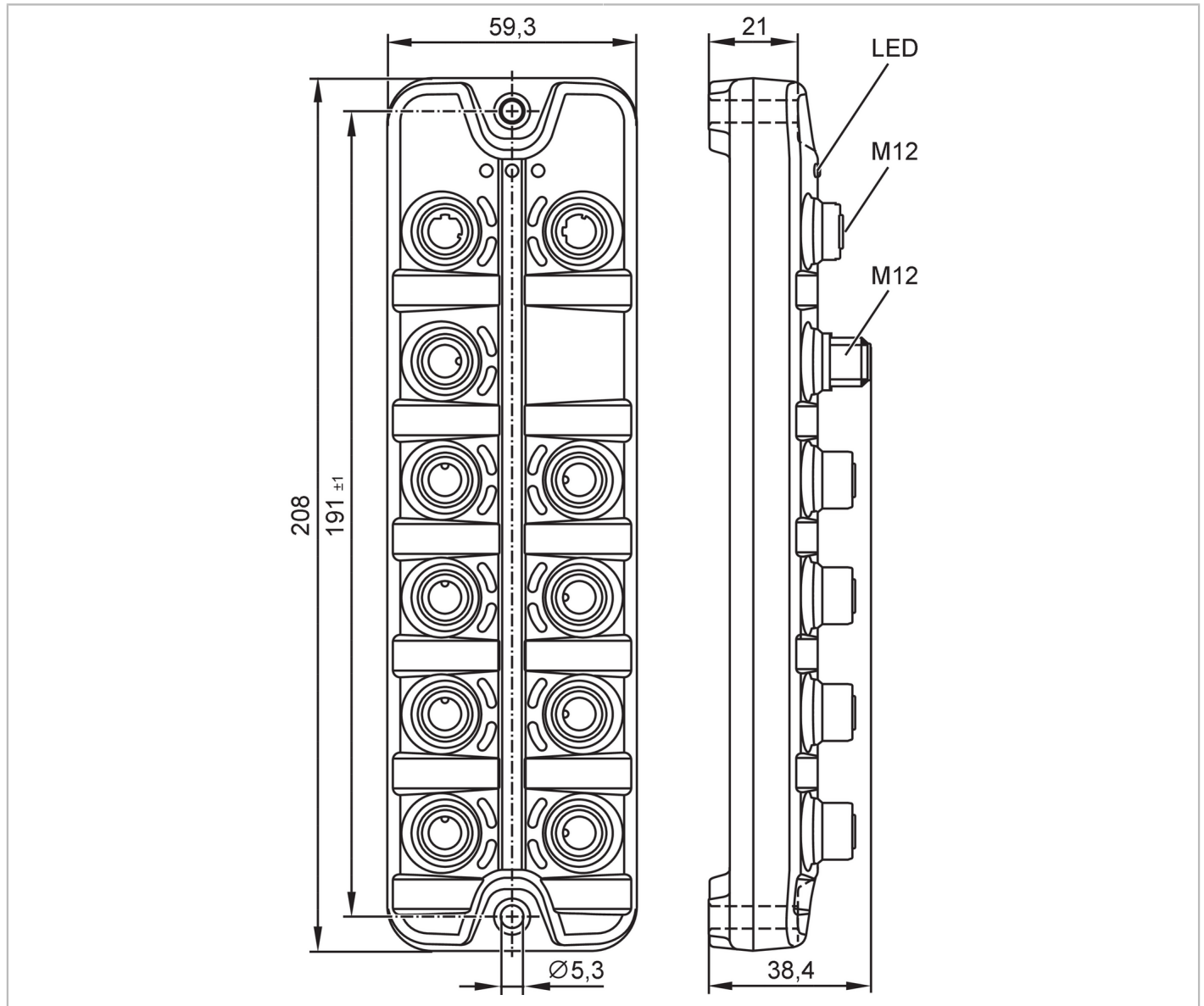


# AL4222



## Ethernet module with EtherNet/IP interface

ETH Module SL EIP 8DO 8DI 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]	300...3900
Protection class	III
Additional voltage supply [V]	20...30 DC; (UA)
Actuator supply UA	
Max. current load total [A]	4
Current rating per port [A]	3.6

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<b>Sensor supply US</b>		
Max. current load total	[A]	3.6
Current rating per port	[A]	3.6
<b>Inputs / outputs</b>		
Number of inputs and outputs	Number of digital inputs: 8; Number of digital outputs: 8	
<b>Inputs</b>		
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	
<b>Outputs</b>		
Number of digital outputs	8	
Short-circuit proof	yes	
<b>Actuator supply UA</b>		
Max. current load per output	[mA]	3600
<b>Software / programming</b>		
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)
<b>Interfaces</b>		
Communication interface	Ethernet	
<b>Ethernet - EtherNet/IP</b>		
Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10 MBit/s; 100 MBit/s	
Protocol	EtherNet/IP	
Factory settings	IP address: 192.168.1.250	
	subnet mask: 255.255.255.0	
	gateway IP address: 0.0.0.0	
	MAC address: see type label	
Note on interfaces	DHCP, BOOTP, static	
	DLR (Device Level Ring)	
	Supported network topologies: line ring	
<b>Operating conditions</b>		
Ambient temperature	[°C]	-25...60
Storage temperature	[°C]	-25...85
Max. relative air humidity	[%]	90
Protection	IP 65; IP 66; IP 67	

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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

### 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]		70

### Mechanical data

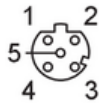
Weight [g]	413.3
Housing	rectangular
Type of mounting	Backplane mounting
Dimensions [mm]	208 x 59.3 x 38.4
Material	housing: PA orange; Socket: brass nickel-plated
Sealing material	FKM

### Remarks

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

### Electrical connection - Ethernet

Connector: M12; coding: D; Contacts: 4; sealing: FKM

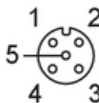


### IN / OUT XF1, XF2

1:	TX +
2:	RX +
3:	TX -
4:	RX -
5:	n.c.

### Electrical connection - inputs / outputs

Connector: M12; coding: A; Contacts: 5; sealing: FKM



### Digital Output X1...X4

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

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## Ethernet module with EtherNet/IP interface

ETH Module SL EIP 8DO 8DI IP67

### 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; Contacts: 4



### XD1

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