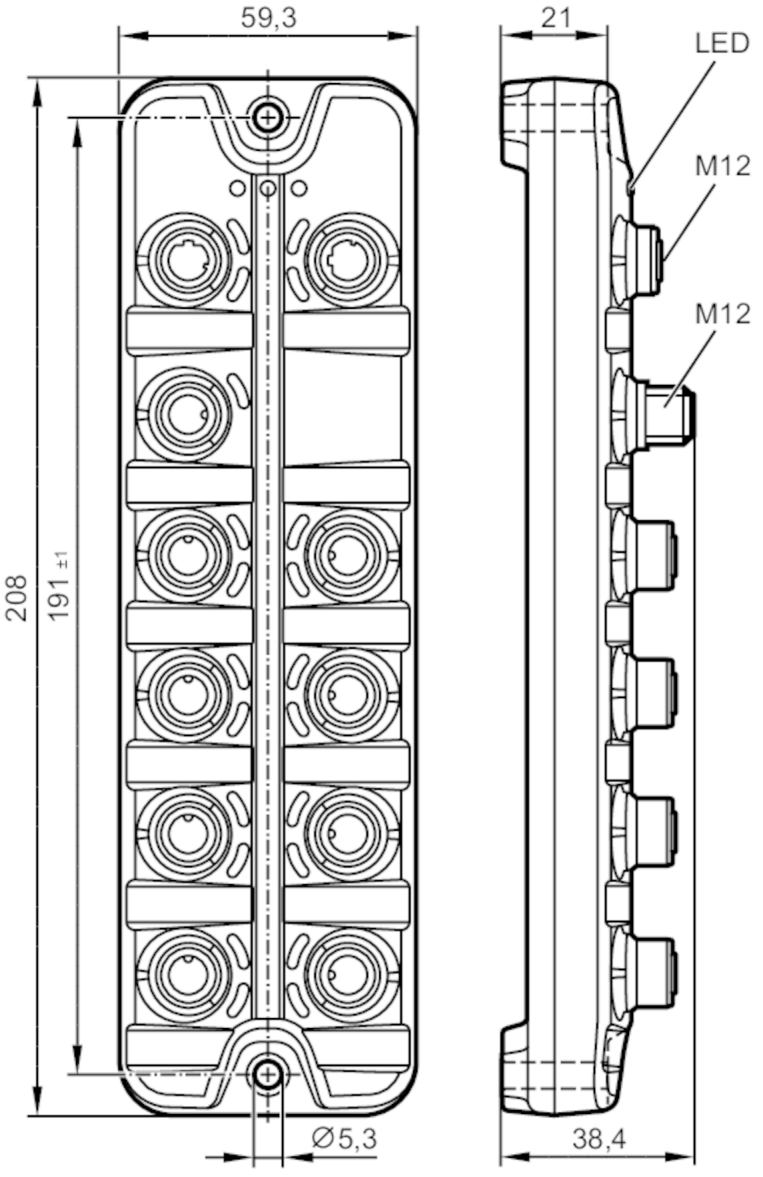
AL1102

IO-Link master with Profinet interface

IO-Link Master SL PN 8P 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; (US)
Protection class		III
Sensor supply US		
Max. current load total	[A]	3.6

AL1102

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Inputs / outputs			
Total number of inputs and outputs		16; (configurable)	
Number of inputs and outputs		Number of digital inputs: 16; Number of digital outputs: 8	
Inputs			
Number of digital inputs		16; (IO-Link Port Class A: 8 x 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; (IO-Link Port Class A: 8 x 1)	
Max. current load per output	[mA]	300	
Short-circuit proof		yes	
Interfaces			
Communication interface		Ethernet; IO-Link	
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)	
		Netload Class III	
		SNMP (Simple Network Management Protocol)	
		MRP (Media Redundancy Protocol)	
		Supported network topologies: line	
		ring	
IO-Link Master			
Transmission type		COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud)	
IO-Link revision		1.1	
Number of ports class A		8	
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

AL1102

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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]	78	

Mechanical data		
Weight	[g]	396
Material		housing: PA orange; Socket: brass nickel-plated
Sealing material		FKM

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

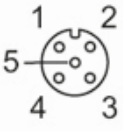
Electrical connection - Ethernet

Connector: M12; coding: D; sealing: FKM

IN / OUT X21, X22	
1	TX +
2	RX +
3	TX -
4	RX -
5	not used

Electrical connection - Process connection

Connector: M12; coding: A; sealing: FKM



IO-Link Port Class A X01...X08	
1	Sensor supply (US) L+
2	Digital input
3	Sensor supply (US) L-
4	C/Q IO-Link
5	not used

AL1102

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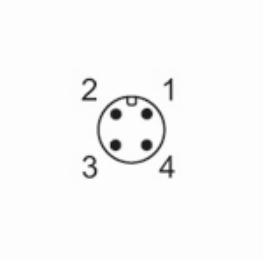
Electrical connection - voltage supply

Connector: M12; coding: A



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