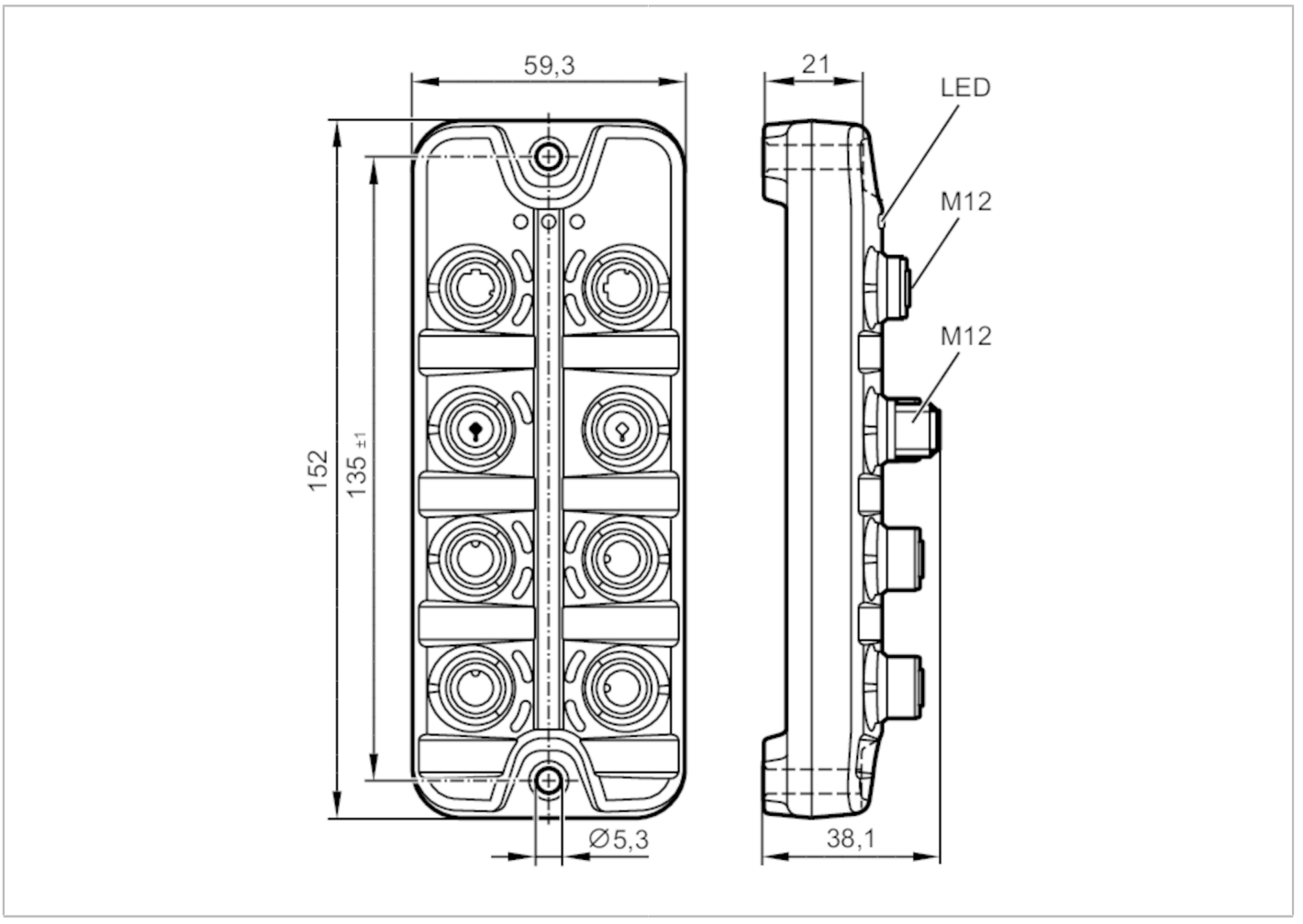
AL1220

IO-Link master with EtherNet/IP interface

IO-Link Master PL EIP 4P IP67



Application		
Application		I/O modules for field applications
Daisy-chain function		power supply; 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
Inputs / outputs		
Total number of inputs and outputs		8; (configurable)
Number of inputs and outputs		Number of digital inputs: 8; Number of digital outputs: 4
Inputs		
Number of digital inputs		8; (IO-Link Port Class A: 4 x 2)
Switching level high	[V]	11...30
Switching level low	[V]	0...5

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Digital inputs protected against short circuits		yes	
Outputs			
Number of digital outputs		4; (IO-Link Port Class A: 4 x 1)	
Max. current load per output	[mA]	300	
Short-circuit proof		yes	
Interfaces			
Communication interface		Ethernet; IO-Link	
Ethernet - EtherNet/IP			
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	
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		4	
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
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]	101	
Mechanical data			
Weight	[g]	324.53	
Materials		housing: PA orange; socket: brass nickel-plated	
Sealing material		FKM	

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Remarks	
Remarks	For further information please see the operating instructions.
Pack quantity	1 pcs.

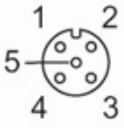
Electrical connection - Ethernet

Connector: M12; coding: D; Sealing: FKM

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

Electrical connection - Process connection

Connector: M12; coding: A; Sealing: FKM



IO-Link Port Class A X01...X04	
1	Sensor supply (US) L+
2	digital input
3	Sensor supply (US) L-
4	C/Q IO-Link
5	not used

Electrical connection - power supply IN

Connector: M12; coding: T

X31	
1	+ 24 V DC (US) brown
2	GND (UA) white
3	GND (US) blue
4	+ 24 V DC (UA) black

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Electrical connection - power supply OUT

Connector: M12; coding: T; Sealing: FKM

X32	
1	+ 24 V DC (US) brown
2	GND (UA) white
3	GND (US) blue
4	+ 24 V DC (UA) black