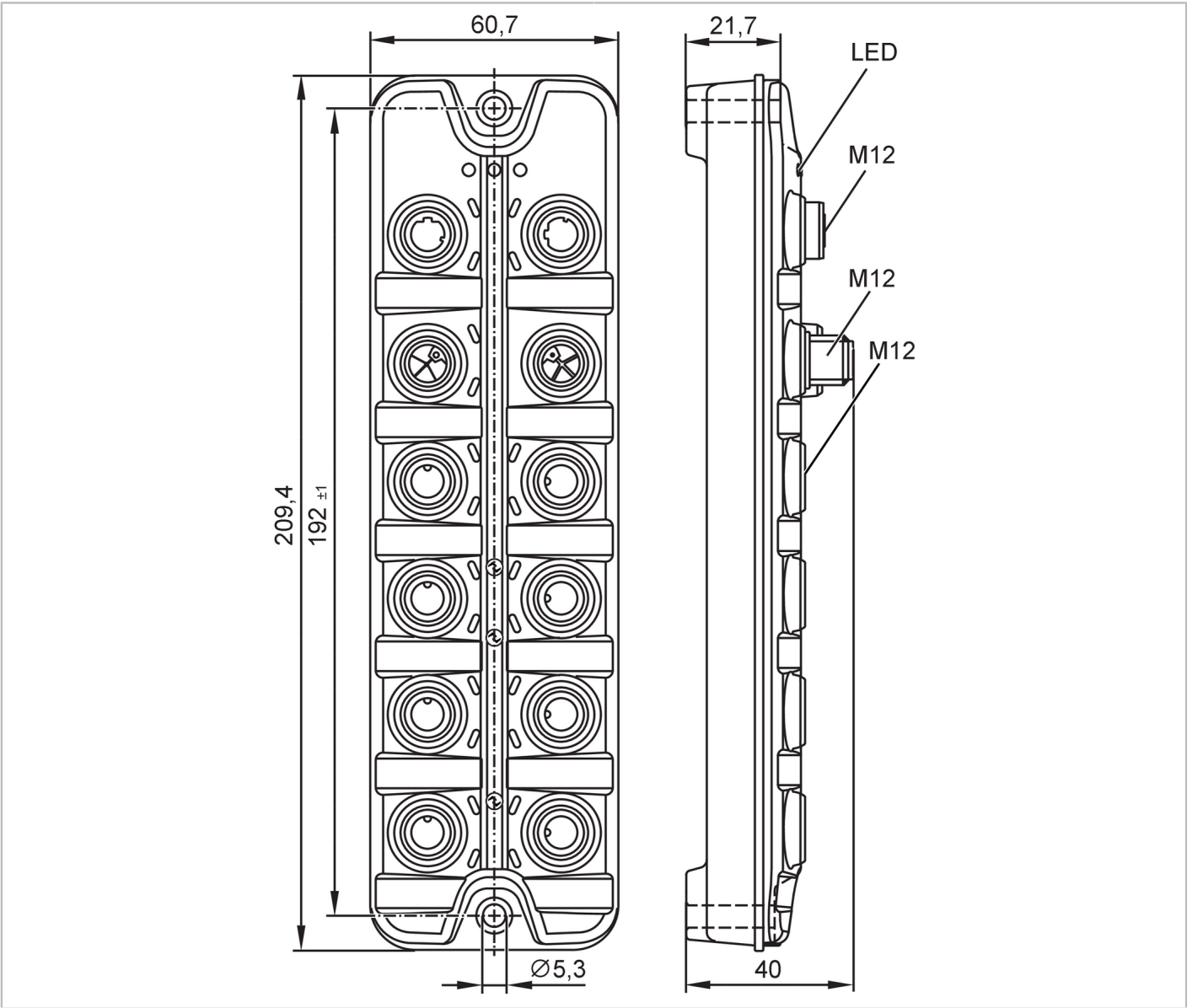


AL1602



IO-Link master with multiprotocol interface

IO-Link Master AL A/B 8P IP67



Application		
Application		I/O modules for field applications
Loop-through function		voltage supply; fieldbus interface
Electrical data		
Operating voltage	[V]	20...30 DC; (US ; to PELV)
Current consumption	[mA]	300...16000; (US)
Protection class		III
Additional voltage supply	[V]	20...30 DC; (UA)
Max. current consumption from additional supply	[mA]	16000; (UA)
Actuator supply UA		
Max. current load total	[A]	16
Current rating per port	[A]	3



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Sensor supply US		
Max. current load total	[A]	15.7
Current rating per port	[A]	2
Inputs / outputs		
Total number of inputs and outputs		16; (configurable)
Number of inputs and outputs		Number of digital inputs: 16; Number of digital outputs: 16
Inputs		
Number of digital inputs		16; (IO-Link Port Class A/B: 8 x 2)
Switching level high	[V]	11...30
Switching level low	[V]	0...5
Outputs		
Number of digital outputs		16; (IO-Link Port Class A/B: 8 x 2)
Short-circuit proof		yes
Actuator supply UA		
Max. current load per output	[mA]	2000; (adjustable; Factory setting: 1500)
Interfaces		
Communication interface		Ethernet; IO-Link
Factory settings		EtherNet/IP
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
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		IO-Link Integration Edition 2
		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 with multiprotocol interface

IO-Link Master AL A/B 8P IP67

IO-Link Master	
Transmission type	COM1 (4,8 kBaud); COM2 (38,4 kBaud); COM3 (230,4 kBaud)
IO-Link revision	1.1
Number of Class A/B ports	8

Operating conditions	
Ambient temperature [°C]	-40...70
Storage temperature [°C]	-40...80
Max. relative air humidity [%]	90
Protection	IP 65; IP 66; IP 67
Pollution degree	2

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
	DIN EN 60068-2-6

Mechanical data	
Weight [g]	352.57
Housing	rectangular
Type of mounting	backplane mounting
Dimensions [mm]	209.4 x 60.7 x 40
Materials	housing: PC black
Sealing material	FKM

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

Electrical connection - Ethernet

Connector: 2 x M12; coding: D; Contacts: 4; Locking: brass, nickel-plated; Sealing: FKM

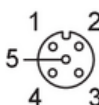


IN/OUT XF1, XF2

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

Electrical connection - IO-Link

Connector: 8 x M12; coding: A; Contacts: 5; Locking: PC; Sealing: FKM





IO-Link master with multiprotocol interface

IO-Link Master AL A/B 8P IP67

IO-Link Port Class A/B X1...X8

1:	L+	(US)
2:	MP1, L+ (UA)	DI1 (US), DO1 (UA)
3:	L-	(US/UA)
4:	MP2	IO-Link, DI2 (US), DO2 (UA)
5:	L-	(US/UA)

Electrical connection - voltage supply IN

Connector: 1 x M12; coding: L; Contacts: 5; Locking: PC



XD1

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

Electrical connection - voltage supply OUT

Connector: 1 x M12; coding: L; Contacts: 5; Locking: PC; Sealing: FKM



XD2

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

DI: digital input; DO: digital output; FE: functional earth; MP: multi-function connection; n.c.: not used