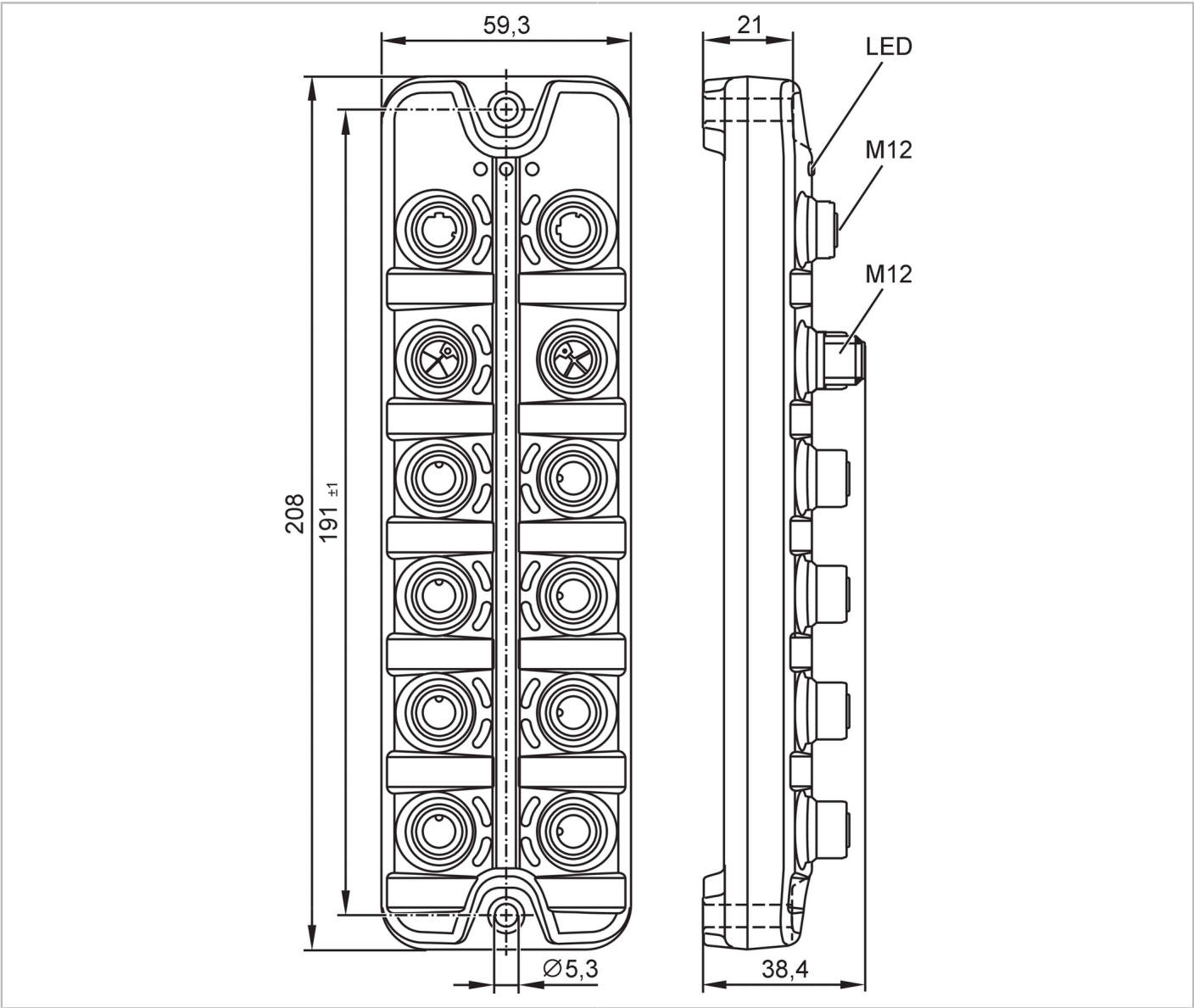


AL1406



IO-Link master with PROFINET interface

IO-Link Master PFL PN 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...3900; (US)
Protection class		III
Overvoltage category		II
Additional voltage supply	[V]	20...30 DC; (UA)
Actuator supply UA		
Max. current load total	[A]	8
Current rating per port	[A]	2; (adjustable: 0...2; Factory setting: 2)



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Sensor supply US		
Max. current load total	[A]	3.6
Current rating per port	[A]	2; (adjustable: 0...2; Factory setting: 0,45)
Inputs / outputs		
Total number of inputs and outputs		16; (configurable)
Number of inputs and outputs		Number of digital inputs: 12; Number of digital outputs: 12
Inputs		
Number of digital inputs		12; (IO-Link Port Class A: 4 x 2; IO-Link Port Class B: 4 x 1)
Switching level high	[V]	11...30
Switching level low	[V]	0...5
Digital inputs protected against short circuits		yes
Outputs		
Number of digital outputs		12; (IO-Link Port Class A: 4 x 1; IO-Link Port Class B: 4 x 2)
Short-circuit proof		yes
Actuator supply UA		
Max. current load per output	[mA]	2000
Sensor supply US		
Max. current load per output	[mA]	2000
Interfaces		
Communication interface		Ethernet; IO-Link
Ethernet - PROFINET		
Transmission standard		10Base-T; 100Base-TX
Transmission rate		100 MBit/s
Protocol		PROFINET; OPC UA
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
		IO-Link Integration Edition 2
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
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
Number of ports class B		4



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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
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

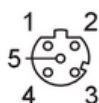
Tests / approvals		
EMC	EN 61000-6-2	
	EN 61000-6-4	
Shock resistance	DIN EN 60068-2-27	
Vibration resistance	DIN EN 60068-2-64 2009-04	
	DIN EN 60068-2-6 2008-10	

Mechanical data		
Weight	[g]	427.1
Housing		rectangular
Type of mounting		backplane mounting
Dimensions	[mm]	208 x 59.3 x 38.4
Materials		housing: PA orange; socket: brass nickel-plated
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; Sealing: FKM

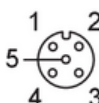


IN/OUT XF1, XF2

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; Sealing: FKM





IO-Link master with PROFINET interface

IO-Link Master PFL PN 8P IP67

IO-Link Port Class B X1...X4

1:	L+	(US; Sensor supply)
2:	L+	(UA; actuator supply/ DO)
3:	L-	(US; Sensor supply)
4:	DATA	IO-Link (C/Q)
5:	L-	(UA; actuator supply)

IO-Link Port Class A X5...X8

1:	L+	(US; Sensor supply)
2:	IN	DI
3:	L-	(US; Sensor supply)
4:	DATA	IO-Link (C/Q)
5:	n.c.	

Electrical connection - voltage supply IN

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



XD1

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

Electrical connection - voltage supply OUT

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



XD2

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