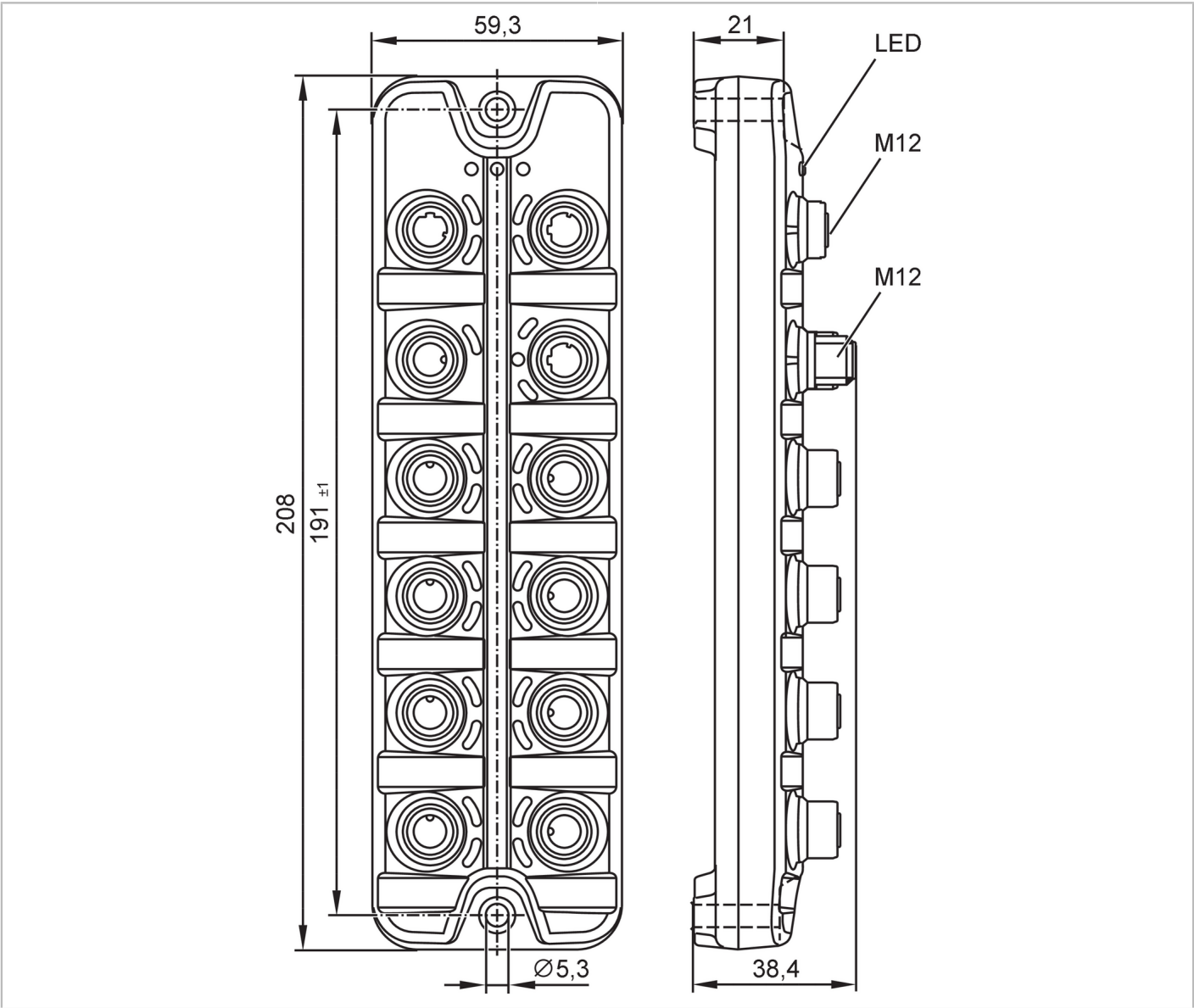


AL1336



IO-Link master with EtherCAT interface

IO-Link Master DL EC 8P IP67



Application	
Application	I/O modules for field applications
Loop-through 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
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



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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 - EtherCAT		
Transmission standard		100Base-TX
Transmission rate		100 MBit/s
Protocol		EtherCAT
Factory settings		MAC address: see type label
Note on interfaces		AoE (ADS over EtherCAT)
		CoE (CANopen over EtherCAT)
		EoE (Ethernet over EtherCAT)
		FoE (File Access over EtherCAT)
Ethernet - Internet of Things		
Transmission standard		10Base-T; 100Base-TX
Transmission rate		10 MBit/s; 100 MBit/s
Protocol		MQTT JSON
Factory settings		IP address: 169.254.x.x
		subnet mask: 255.255.0.0
		gateway IP address: 0.0.0.0
		MAC address: see type label
Note on interfaces		Secure protocol: HTTPS
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
Pollution degree		2
Chemical media	ISO 16750-5	AA, BA, BD, HLP, CC, DB, DC, DD, CA
	NEMA 250 5.13.1	AA



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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	

Mechanical data		
Weight	[g]	413
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



EtherCAT X21, X22

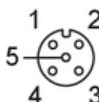
1	DATA	TX +
2	DATA	RX +
3	DATA	TX -
4	DATA	RX -
5	n.c.	

IoT X23

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: 4; Sealing: FKM



IO-Link Port Class A X01...X08

1	L+	(US)
2	IN1	DI1
3	L-	(US)
4	MP1	IO-Link, DI2, DO1
5	n.c.	

AL1336



IO-Link master with EtherCAT interface

IO-Link Master DL EC 8P IP67

Electrical connection - voltage supply

Connector: 1 x M12; coding: A; Contacts: 4



X31

1	L+	(US)
2	n.c.	
3	L-	(US)
4	n.c.	

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