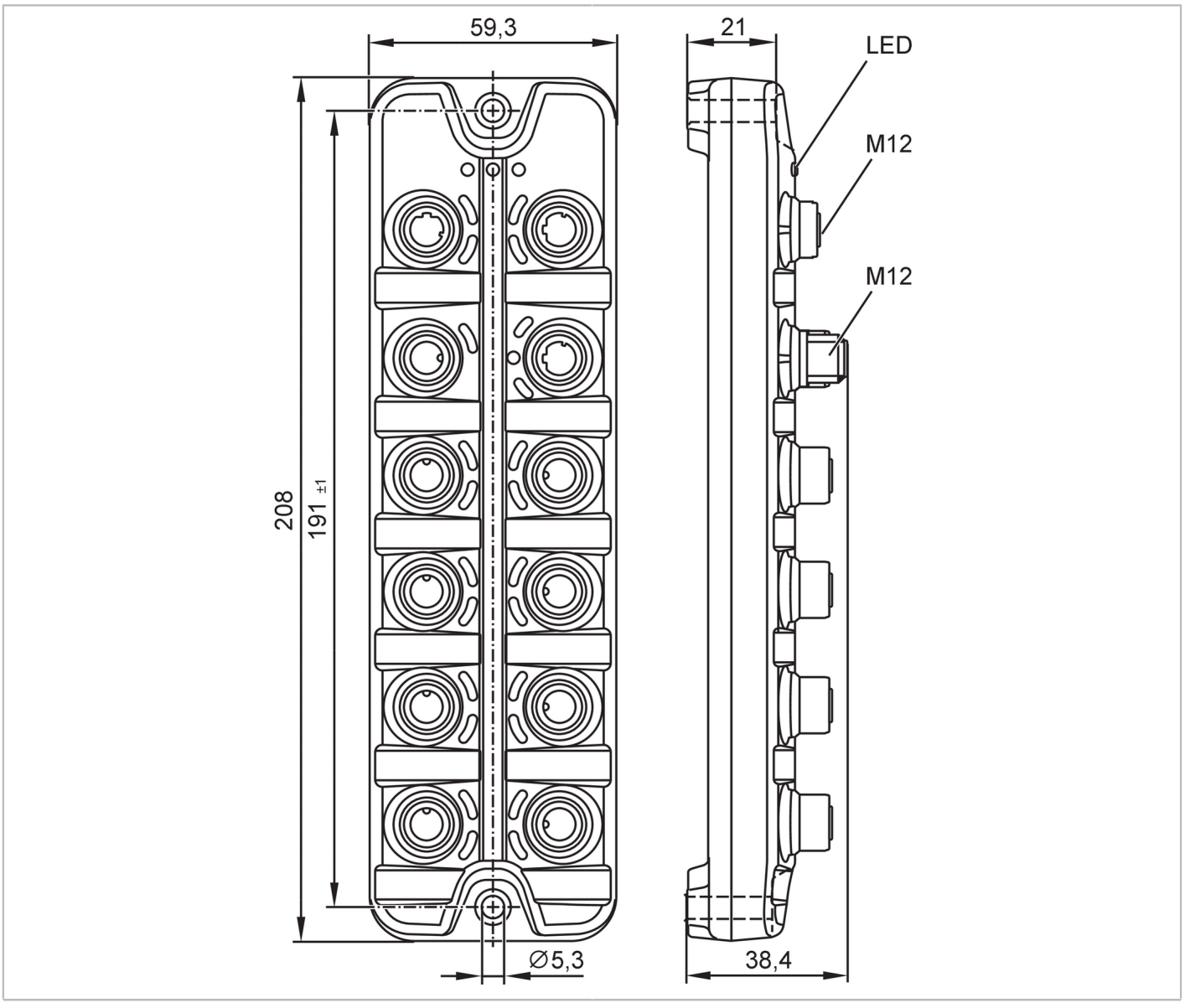
AL1337

IO-Link master with EtherCAT interface

IO-Link Master DL EC 8P IP69K



Application		
Application		hygienic systems; I/O modules for field applications
Daisy-chain function		fieldbus interface
Electrical data		
Operating voltage	[V]	20...28 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

AL1337

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Inputs			
Number of digital inputs		16; (IO-Link Port Class A: 8 x 2)	
Switching level high	[V]	11...28	
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		Safety 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; IP 69K; (operation with stainless steel protective caps: IP 69K)	
Protection rating (NEMA 250)		6P	
Pollution degree		2	
Chemical media		ISO 16750-5	HLP, CC, DB, DC, DD, CA
		NEMA 250 5.13.1	AA

AL1337

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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]	425.9
Housing		rectangular
Type of mounting		Backplane mounting
Dimensions	[mm]	208 x 59.3 x 38.4
Material		housing: PA grey; Socket: stainless steel (1.4404 / 316L)
Sealing material		EPDM

Accessories	
Items supplied	Protective cap: 1 x M12, stainless steel, E12542

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

Electrical connection - Ethernet

Connector: 3 x M12; coding: D; Contacts: 4; sealing: EPDM



EtherCAT X21, X22

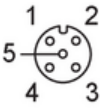
1	DATA	TX +
2	DATA	RX +
3	DATA	TX -
4	DATA	RX -
5	n.c.	

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: EPDM



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.	

AL1337

IO-Link master with EtherCAT interface

IO-Link Master DL EC 8P IP69K

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