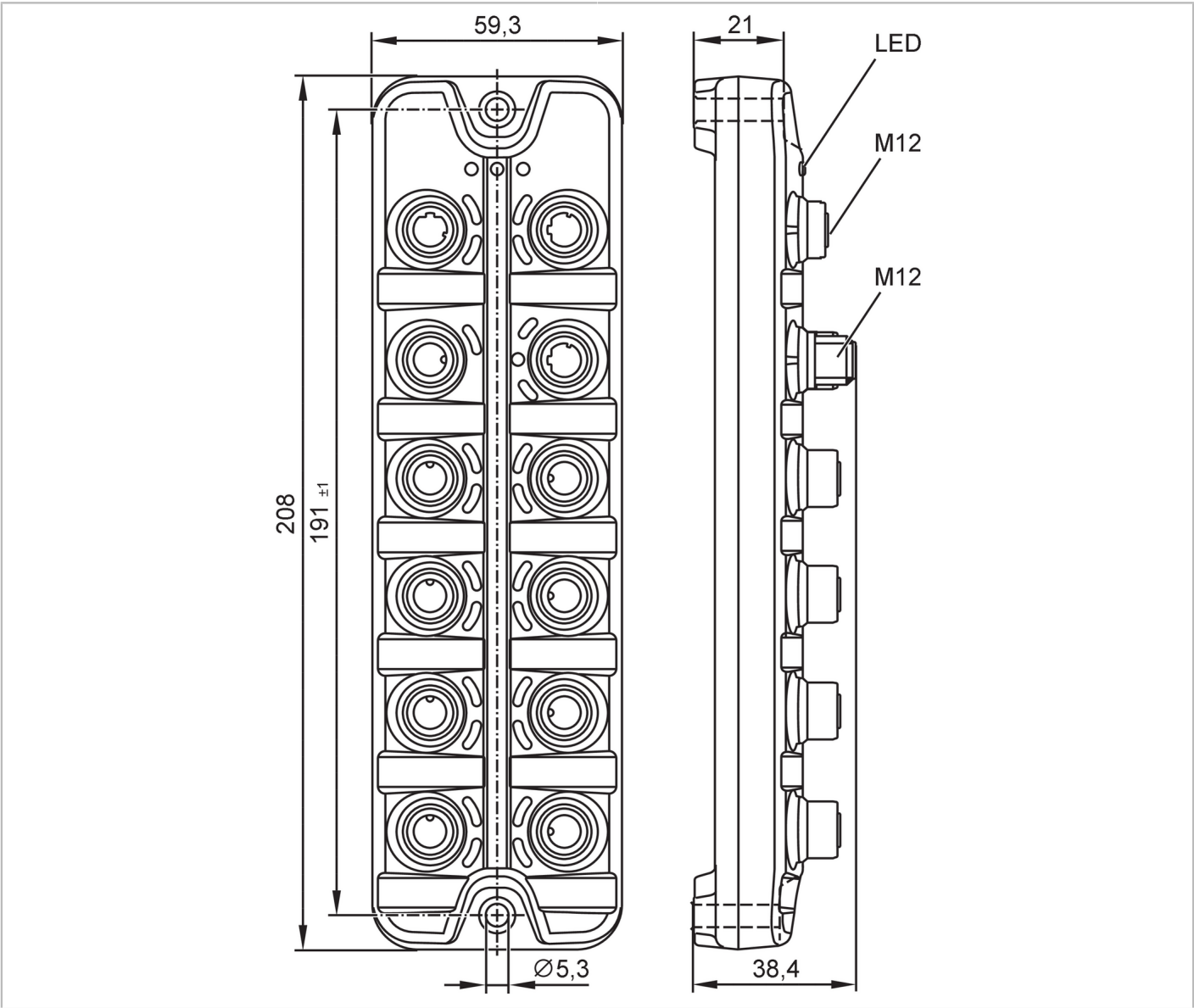


AL1333



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



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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



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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	
MTTF	[years]	78
Mechanical data		
Weight	[g]	394.5
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	TX +	
2	RX +	
3	TX -	
4	RX -	
5	not used	
IoT X23		
1	TX +	
2	RX +	
3	TX -	
4	RX -	
5	not used	
Electrical connection - IO-Link		
Connector: 8 x M12; coding: A; Contacts: 4; sealing: EPDM		
		
IO-Link Port Class A X01...X08		
1	Sensor supply (US) L+	
2	Digital input	
3	Sensor supply (US) L-	
4	C/Q IO-Link	
5	not used	

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IO-Link master with EtherCAT interface

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Electrical connection - voltage supply

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



X31	
1	+ 24 V DC (US)
2	not used
3	GND (US)
4	not used