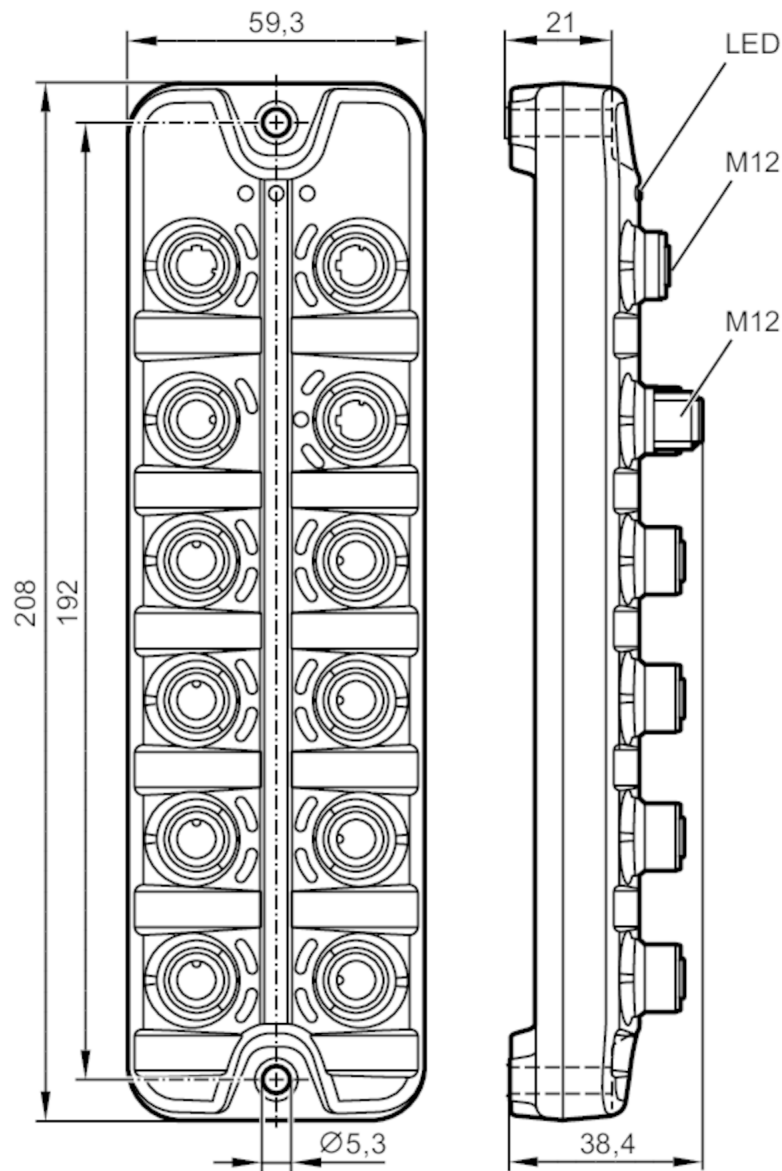


AL1303



IO-Link master with Profinet interface

IO-Link Master DL PN 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



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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
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 - Internet of Things	
Transmission standard	10Base-T; 100Base-TX
Transmission rate	10; 100
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
Ethernet - PROFINET	
Transmission standard	10Base-T; 100Base-TX
Transmission rate	10; 100
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	CC-C (Conformance Class C) (IRT)
	Netload Class III
	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	8

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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; IP 69K; (operation with stainless steel protective caps: IP 69K)	
Degree of soiling		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 2009-04	
	DIN EN 60068-2-6 2008-10	
MTTF	[years]	78

Mechanical data		
Weight	[g]	395
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: M12; sealing: EPDM



PROFINET 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

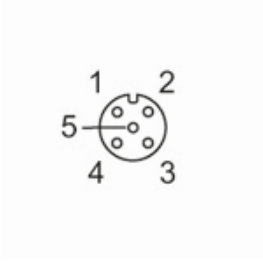


IO-Link master with Profinet interface

IO-Link Master DL PN 8P IP69K

Electrical connection - Process connection

Connector: M12; sealing: EPDM

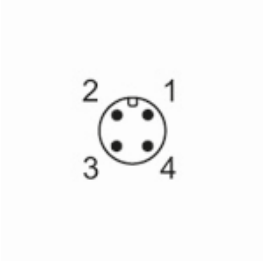


IO-Link Port Class A X01...X08

- | | |
|---|-----------------------|
| 1 | Sensor supply (US) L+ |
| 2 | Digital input |
| 3 | Sensor supply (US) L- |
| 4 | C/Q IO-Link |
| 5 | not used |

Electrical connection - voltage supply

Connector: M12



X31

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