

# AL1301

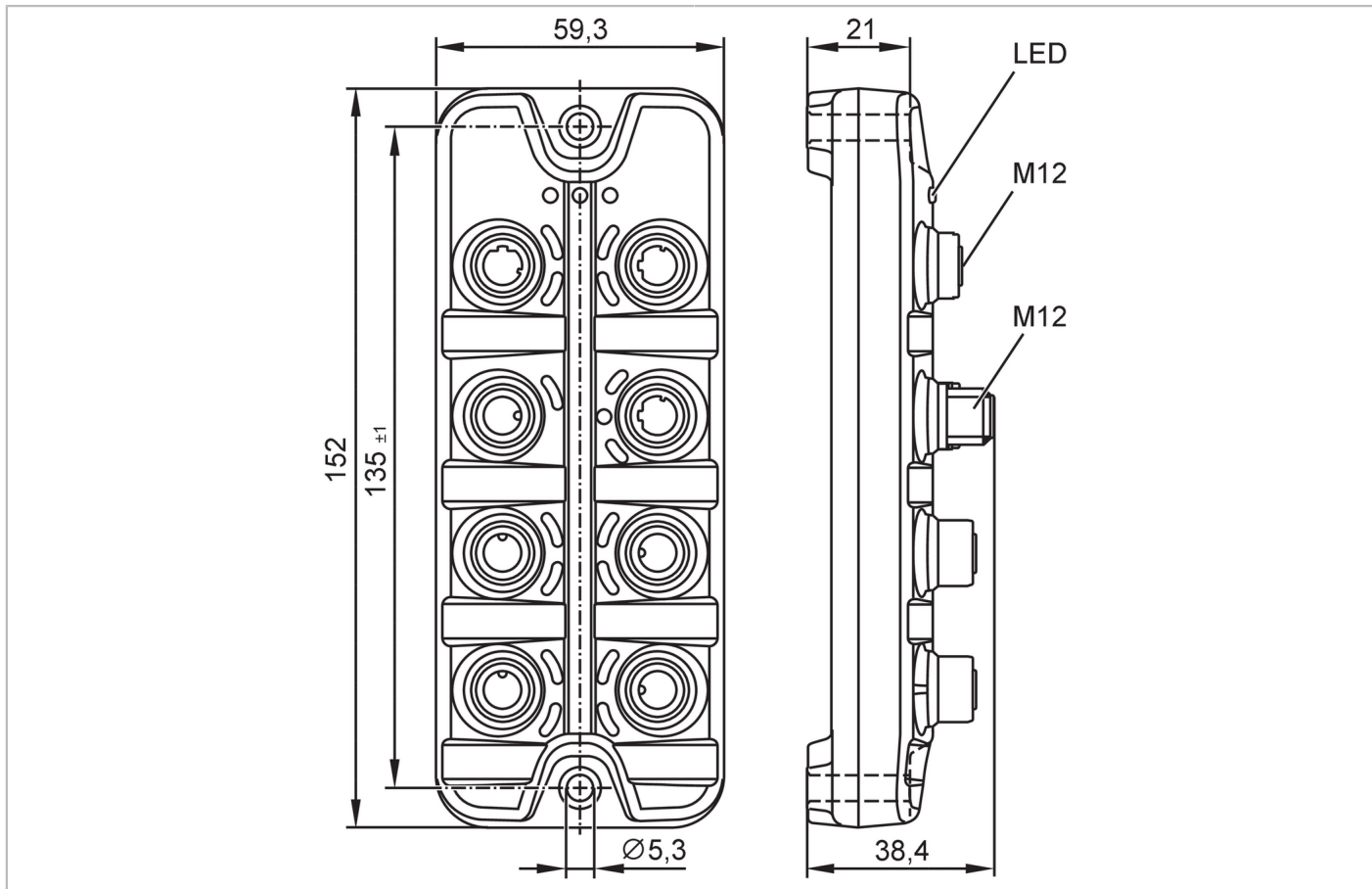


## IO-Link master with PROFINET interface

IO-Link Master DL PN 4P IP69K

Alternative articles: AL1305

When selecting an alternative article and accessories please note that technical data may differ!



### Application

Application	hygienic systems; I/O modules for field applications
Loop-through 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		8; (configurable)
Number of inputs and outputs		Number of digital inputs: 8; Number of digital outputs: 4

### Inputs

Number of digital inputs		8; (IO-Link Port Class A: 4 x 2)
Switching level high	[V]	11...28
Switching level low	[V]	0...5



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Digital inputs protected against short circuits	yes	
<b>Outputs</b>		
Number of digital outputs	4; (IO-Link Port Class A: 4 x 1)	
Max. current load per output [mA]	300	
Short-circuit proof	yes	
<b>Interfaces</b>		
Communication interface	Ethernet; IO-Link	
<b>Ethernet - PROFINET</b>		
Transmission standard	100Base-TX	
Transmission rate	100 MBit/s	
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-Switch)	
	Netload Class III	
	SNMP (Simple Network Management Protocol)	
	MRP (Media Redundancy Protocol)	
	supported network topologies: line ring	
<b>Ethernet - Internet of Things</b>		
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	
<b>IO-Link Master</b>		
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	
<b>Operating conditions</b>		
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]	95

Mechanical data		
Weight	[g]	314
Housing		rectangular
Type of mounting		backplane mounting
Dimensions	[mm]	152 x 59.3 x 38.4
Materials		housing: PA grey; socket: stainless steel (316L/1.4404)
Sealing material		EPDM

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

Remarks	
Remarks	For further information please see the operating instructions.
Pack quantity	1 pcs.

Electrical connection - Ethernet	
Connector: 3 x M12; coding: D; 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

Electrical connection - IO-Link	
Connector: 4 x M12; coding: A; Sealing: EPDM	

IO-Link Port Class A X01...X04	
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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### Electrical connection - power supply IN

Connector: 1 x M12; coding: A; Sealing: EPDM



#### X31

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