

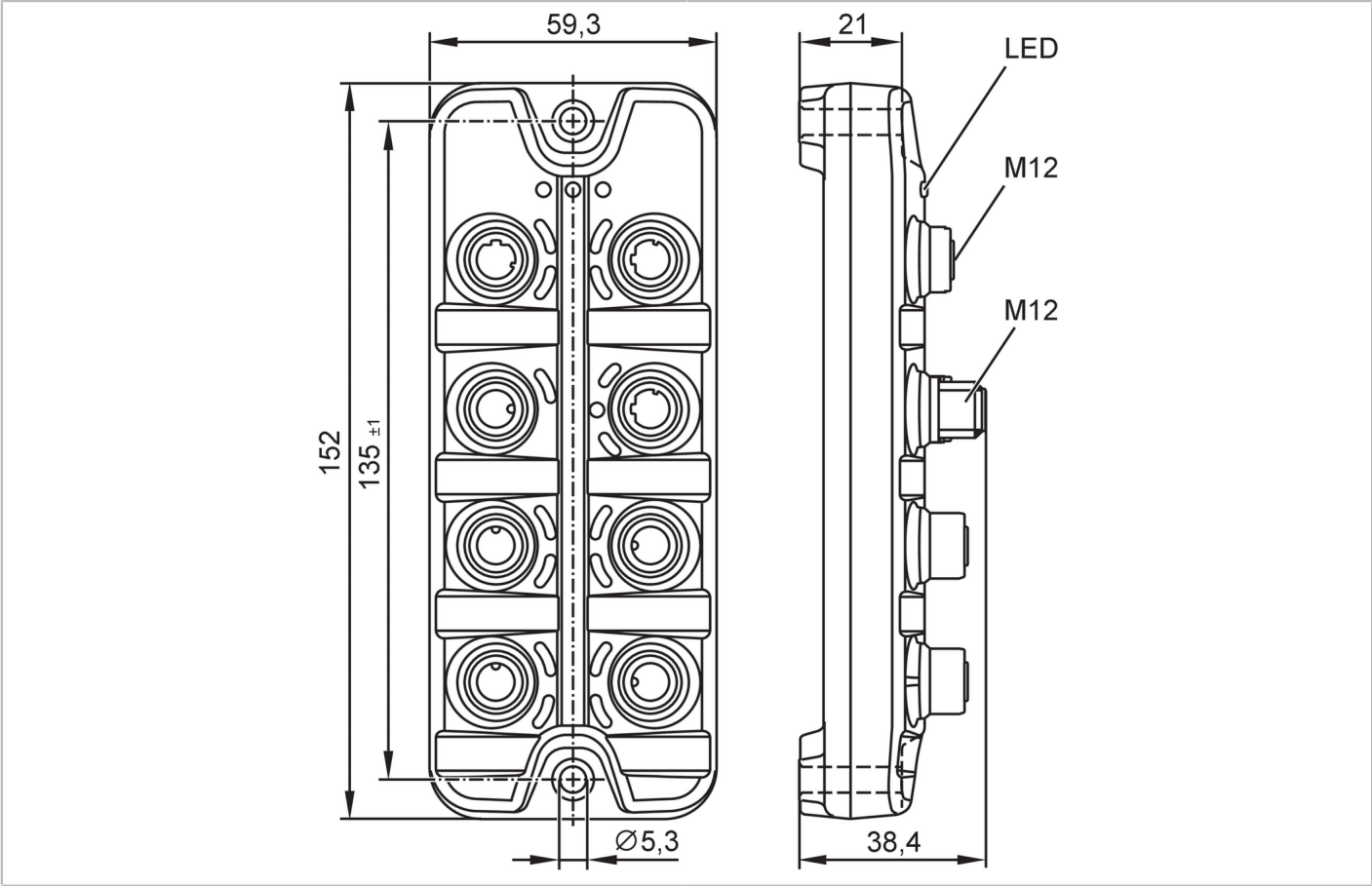
AL1301



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
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		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
Outputs	
Number of digital outputs	4; (IO-Link Port Class A: 4 x 1)
Max. current load per output [mA]	300
Short-circuit proof	yes
Interfaces	
Communication interface	Ethernet; IO-Link
Ethernet - PROFINET	
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
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	4
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
	NEMA 250 5.13.1



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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
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		
		
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; Contacts: 4; 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 - voltage supply IN

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



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