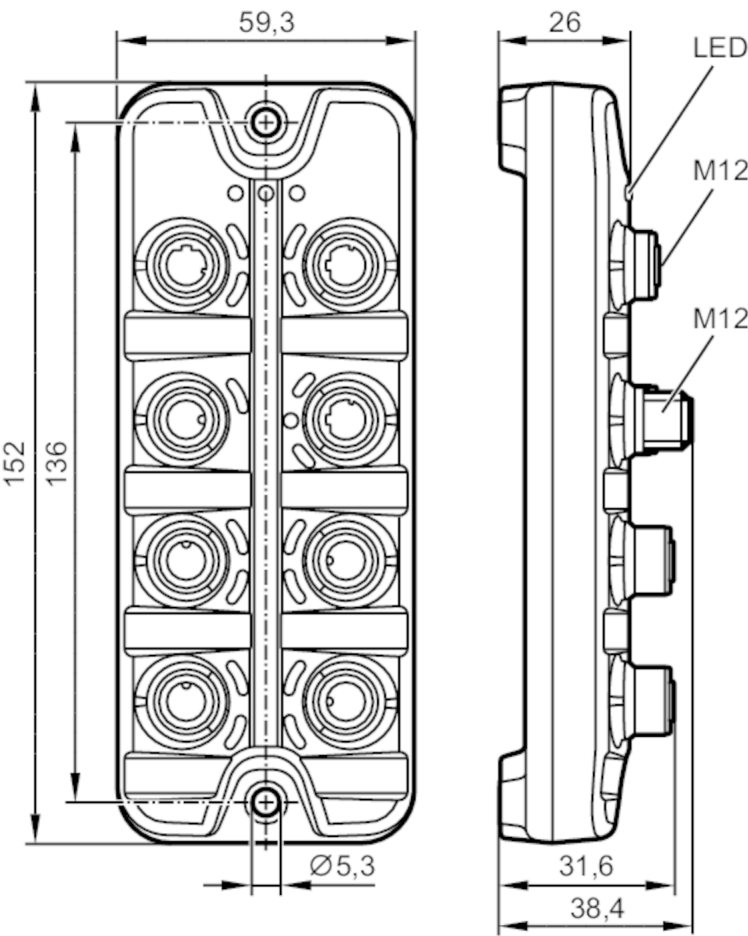


AL1330



IO-Link master with EtherCAT interface

IO-Link Master DL EC 4P IP67



Application	
Application	I/O modules for field applications
Daisy-chain function	fieldbus interface
Electrical data	
Operating voltage [V]	20...30 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)
Inputs	
Number of digital inputs	8; (IO-Link Port Class A: 4 x 2)
Switching level high [V]	11...30
Switching level low [V]	0...5
Digital inputs protected against short circuits	yes



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Outputs		
Number of digital outputs	4; (IO-Link Port Class A: 4 x 1)	
Max. current load per output [mA]	200	
Short-circuit proof	yes	
Interfaces		
Communication interface	Ethernet; IO-Link	
Ethernet - EtherCAT		
Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10; 100	
Protocol	EtherCAT	
Factory settings	MAC address: see type label	
Ethernet - Internet of Things		
Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10; 100	
Protocol	TCP/IP 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	
IO-Link Master		
Transmission type	COM 1 / COM 2 / COM 3	
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	
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]	90	
Mechanical data		
Weight [g]	271.8	
Materials	housing: PA; socket: brass nickel-plated	
Remarks		
Remarks	For further information please see the operating instructions.	
Pack quantity	1 pcs.	



IO-Link master with EtherCAT interface

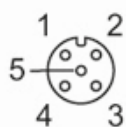
IO-Link Master DL EC 4P IP67

Electrical connection - Process connection

IO-Link Port Class A X01...X04

1	Sensorversorgung (US) L+
2	digital input
3	Sensorversorgung (US) L-
4	C/Q IO-Link
5	not used

Connector: M12



Electrical connection - voltage supply

X31

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

Connector: M12



Electrical connection - Ethernet

EtherCAT X21, X22

1	TX +
2	RX +
3	TX -
4	RX -
5	not used

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IO-Link master with EtherCAT interface

IO-Link Master DL EC 4P IP67

IoT X23

1	TX +
2	RX +
3	TX -
4	RX -
5	not used

Connector: M12

