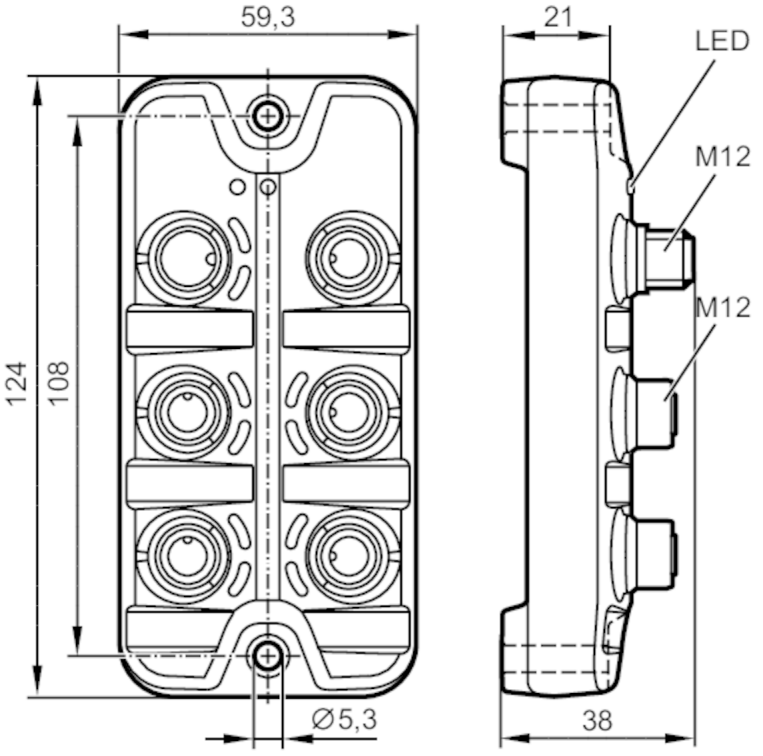
AC6001

IO-Link master with AS-i interface

IO-Link Master AS-i 4P IP69K



Application		
Application		hygienic and wet areas in the food industry
Daisy-chain function		power supply; fieldbus interface
Electrical data		
Operating voltage	[V]	18...31.6 DC; (AS-i)
Current consumption	[mA]	300...1500; (AUX)
Max. current consumption from AS-i	[mA]	100
Protection class		III
Max. current load total	[A]	1.1; (ports 1+2: 0,55 (AUX); ports 3+4: 0,55 (AUX))
Additional voltage supply	[V]	20...30 DC; (AUX)
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)
Sensor supply of the inputs		AUX
Switching level high	[V]	11...30
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	
Actuator supply outputs		AUX	
Interfaces			
Communication interface		IO-Link; AS-i	
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	HLP, CC, DB, DC, DD, CA
		NEMA 250 5.13.1	AA
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]	161	
AS-i classification			
AS-i version		2.11; 3.0	
Extended addressing mode		no	
AS-i profile		basic slave (CTT1 input)	S-7.4.E
		additional slave (CTT1 input)	S-7.3.E
		additional slave (CTT1 output)	S-7.3.2
Number of AS-i devices		1...5	
Mechanical data			
Weight	[g]	255	
Materials		housing: PA grey; socket: stainless steel (316L/1.4404)	
Electrical connection			
Module connection		M12	
Remarks			
Remarks		For further information please see the operating instructions.	
Pack quantity		1 pcs.	

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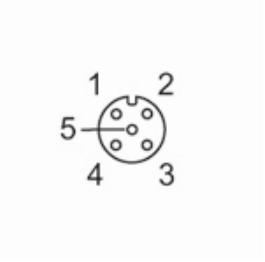
Electrical connection - Process connection

Connector: 4 x M12; coding: A



IO-Link Port Class A X01...X04

1	+ 24 V DC (AUX)
2	digital input
3	GND (AUX)
4	C/Q IO-Link
5	not used

Electrical connection - power supply IN

Connector: 1 x M12; coding: A

X21

1	AS-i +
2	AUX -
3	AS-i -
4	AUX +

Electrical connection - power supply OUT

Connector: 1 x M12; coding: A

X22

1	AS-i +
2	AUX -
3	AS-i -
4	AUX +
5	not used