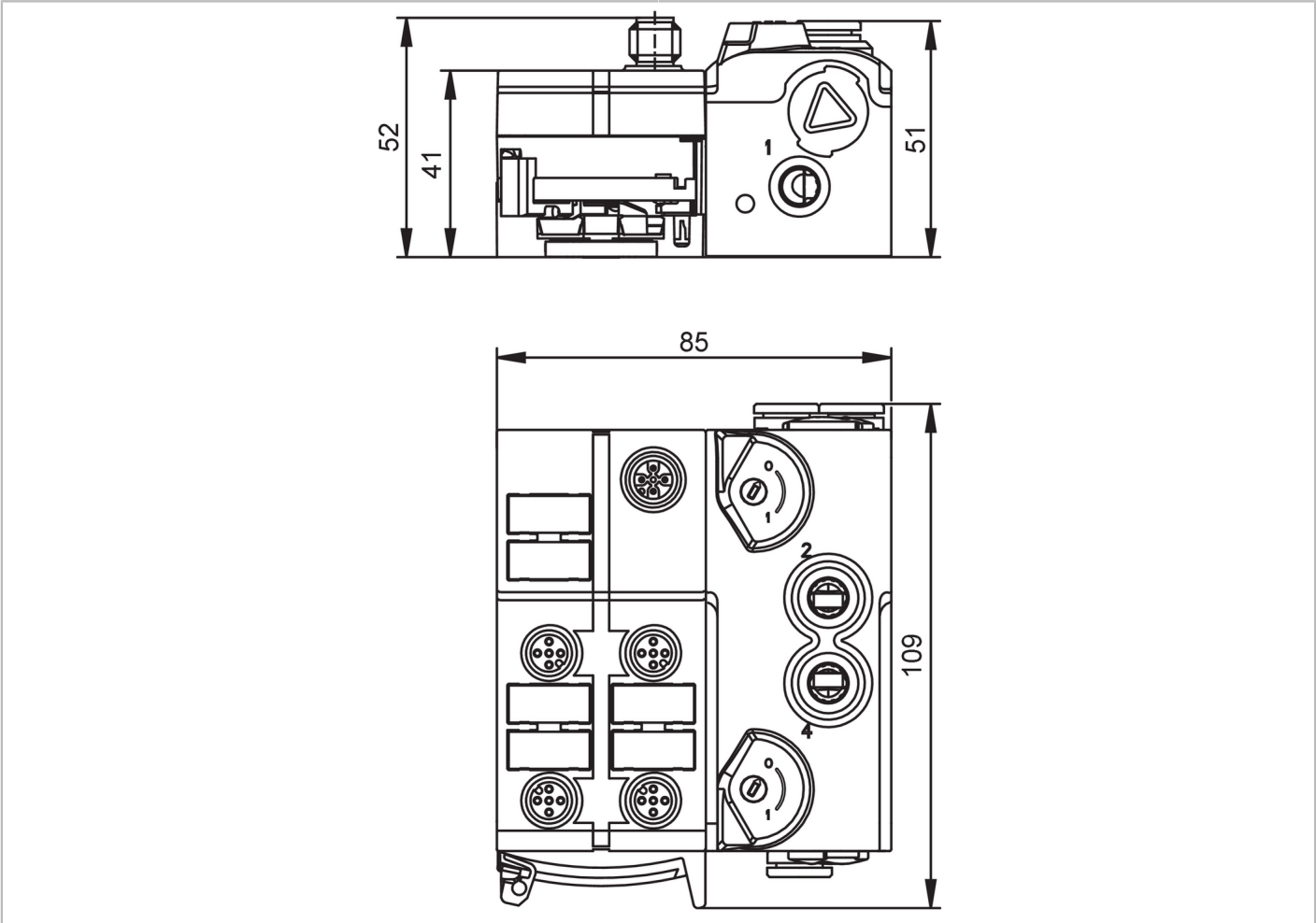


AL5251



IO-Link AirBox with quick mounting technology

IO-Link AirBox 1x5/2 bist. 4x2DI



IO-Link



Product characteristics

Number of inputs and outputs Number of digital inputs: 8; Number of pneumatic outputs: 2

Application

Design	housing for DIN rail mounting
Application	field installation; for use in wet environments
Media	compressed air
Medium temperature [°C]	-10...50

Electrical data

Operating voltage [V]	18...30 DC; (to SELV/PELV)
Nominal voltage DC [V]	24
Current consumption [mA]	80...680; (24 V DC, full load)
Overvoltage category	II

Inputs / outputs

Number of inputs and outputs Number of digital inputs: 8; Number of pneumatic outputs: 2

Inputs

Number of digital inputs	8; (4 x 2)
Input circuit of digital inputs	PNP



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Sensor supply of the inputs	US	
Voltage supply [V]	18...30; (from the operating voltage)	
Max. total current rating of inputs [mA]	400	
Input current High [mA]	2...3.5	
Input current low [mA]	0...1.5	
Switching level high [V]	> 11	
Digital inputs protected against short circuits	yes	
Outputs		
Number of pneumatic outputs	2	
Actuator supply outputs	US	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Common - I&D	Identification and Diagnosis
	Function	Locator
	Function	ProductURI
SIO mode	no	
Required master port class	A	
Min. process cycle time [ms]	2.7	
Supported DeviceIDs	Type of operation	DeviceID
	default	1505
Operating conditions		
Ambient temperature [°C]	-10...55	
Note on ambient temperature	Switching frequency < 1,66 Hz: -10...50 °C	
	Switching frequency > 1,66 Hz: -10...55 °C	
Max. relative air humidity [%]	90; (non condensing)	
Max. height above sea level [m]	4000	
Protection	IP 65; IP 67	
Pollution degree	2	
Mechanical data		
Weight [g]	136.5	
Housing	rectangular	
Type of mounting	Mounting on DIN rail; quick mounting; AS-i flat cable connection; (TH35 (EN 60715))	
Dimensions [mm]	109 x 85 x 52	
Material	housing: PA 6.6; AirBox housing: PA 6; sealing: TPE; sealing rings: NBR	
Pneumatic system	1 x 5/2-way slide valve (free from overlapping); bistable	
Operating pressure range	3...8 bar	43.5...116 psi
Air flow at 6/5 bar [l/min]	500	
Permissible compressed air	non-lubricated compressed air class 6-3-1; lubricated compressed air class 6-3-4	
Manual override	pressing/releasing or pressing/turning/locking	
Tube fittings	8 mm	

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Exhaust	exhaust can be discharged through tube connection
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Displays / operating elements

Display	Power	LED, green
	errors	LED, red
	Function	LED, yellow

Accessories

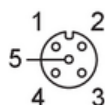
Items supplied	lower part
Accessories (optional)	Mounting plate:, E74999
	Module lower part:, E75000
	Protective cap: M12, E73004
	sealing plug:, E75231
	Silencer:, E75232
	Push-in L-fitting:, E75228
	Push-in T-fitting:, E75227

Remarks

Remarks	If not pneumatically operated, E75231 sealing plug must be inserted.
	Avoid ingress of dirt and dust.
	Do not connect any of the following points to an external potential:
	L-, L+, I-1, I-2, I-3, I-4
	Please see the notes on compressed air and EMC/ESD under "Downloads"
Pack quantity	1 pcs.

Electrical connection - Socket

Connector: 4 x M12; coding: A; Contacts: 5



Digital input X1.0...X1.3

1	L+
2	IN2 DI2
3	L-
4	IN1 DI1
5	n.c.

Electrical connection - plug

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



voltage supply X1

1	L+
2	n.c.
3	L-
4	IO-Link

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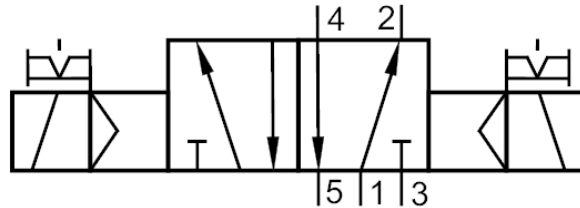


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Diagrams and graphs

Pneumatic symbol



1 x 5/2-way slide valve (free from overlapping); bistable