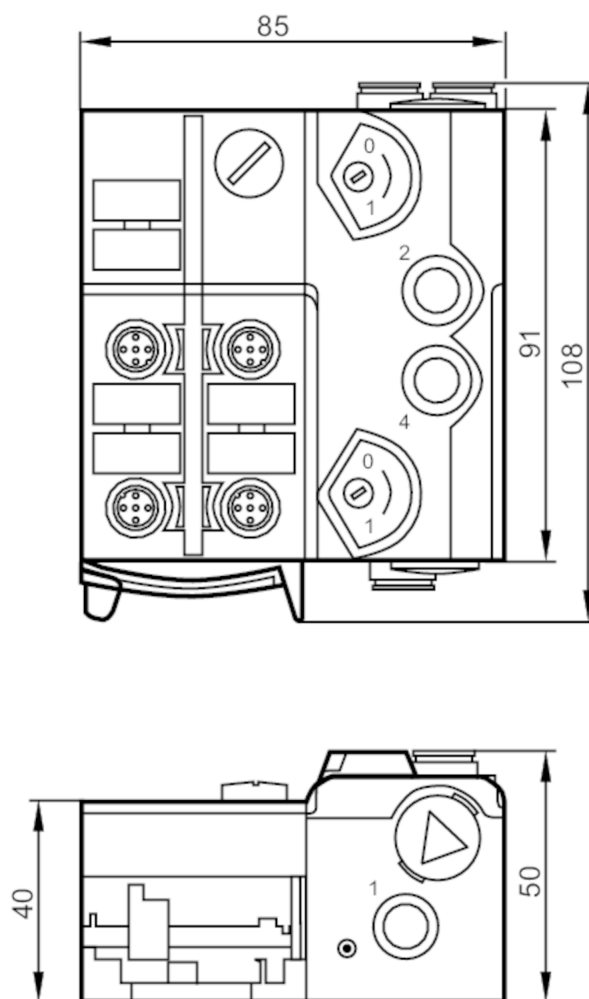


AC551A



AS-Interface Airbox with quick mounting technology

AirBox 5/2 bist. 4DI-Y II 3D



Electrical data

Operating voltage	[V]	26.5...31.6 DC
Max. current consumption from AS-i	[mA]	280
Integrated watchdog		yes

Inputs / outputs

Number of inputs and outputs	Number of digital inputs: 4; Number of pneumatic outputs: 2
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AS-Interface Airbox with quick mounting technology

AirBox 5/2 bist. 4DI-Y II 3D

Inputs					
Number of digital inputs	4				
Input circuit of digital inputs	PNP				
voltage supply [V]	20...30; (via flat cable)				
Max. total current rating of inputs [mA]	200				
Input current High [mA]	6...10				
Input current Low [mA]	0...2				
Min. switching level high signal [V]	11				
Digital inputs protected against short circuits	yes				
Sensor supply of the inputs	AS-i				
Outputs					
Electrical design	AS-i				
Number of pneumatic outputs	2				
Operating conditions					
Ambient temperature [°C]	-10...50				
Protection	IP 50				
Tests / approvals					
ATEX marking	II 3D Ex tc IIIB T80°C Dc X IP50				
EMC	EN 50295				
	IEC 61000-6-2				
MTTF [years]	258				
AS-i classification					
AS-i version	2.11 + 3.0				
AS-i addressing	addressing socket				
Extended addressing mode possible	yes				
AS-i profile	S-7.A.E				
AS-i I/O configuration [hex]	7				
AS-i ID code [hex]	A.E				
AS-i certificate pending	yes				
Assignment of the data bits	data bit	D0	D1	D2	D3
	input	1	2	3	4
	socket	I-1/2	I-1/2 I-2	I-3/4	I-3/4 I-4
	pin	4	2 4	4	2 4
	pneumatic output	2	4	-	-

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AS-Interface Airbox with quick mounting technology

AirBox 5/2 bist. 4DI-Y II 3D

Mechanical data		
Weight	[g]	396.4
Type of mounting		AS-i flat cables directly connectable
Materials		PA; POM; piercing contacts: CuSn6 nickel-plated and tin-plated;
Pneumatic system		1 x 5/2-way slide valves (free from overlapping); bistable
Operating pressure range	[bar]	3...8
Operating pressure range	[MPa]	0.3...0.8
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
Exhaust		exhaust can be discharged through tube connection
Displays / operating elements		
Display	operation	LED, green
	errors	LED, red
	function	LED, yellow
Accessories		
Accessories (supplied)		lower part
Accessories (optional)		Mounting plate, E74999
		Module lower part, E75000
		Protective cap: M12, E73004
		sealing plugs, E75231
		Impact protection housing, E7000A
		silencer, E75232
		Push-in L-fitting, E75228
		Push-in T-fitting, E75227
Remarks		
Remarks		Mechanical protection has to be implemented.
		Otherwise the unit must be installed together with the impact protection housing (E7000A).
		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
		The connections are electrically connected with the AS-i cable.
		Notes on compressed air and EMC/ESD at www.ifm.com
Pack quantity		1 pcs.



AS-Interface Airbox with quick mounting technology

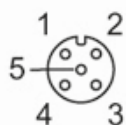
AirBox 5/2 bist. 4DI-Y II 3D

Electrical connection

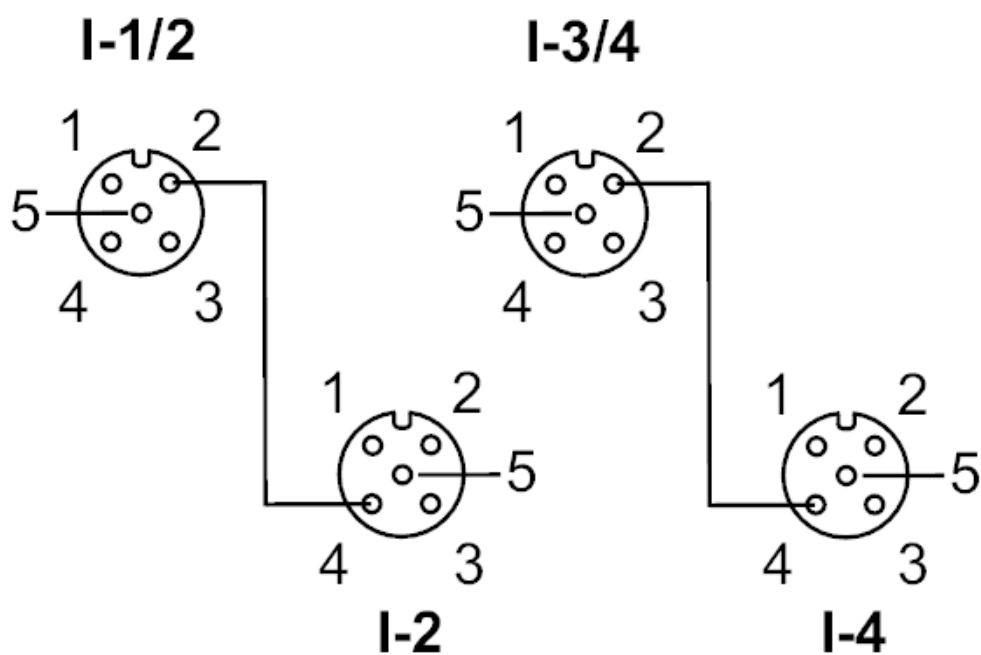
quick mounting technology for AS-i flat cable: ; three orientations possible

Inputs	
socket I-1/2	
1	Sensor supply L+
2	data input 2
3	Sensor supply L-
4	data input 1
5	not used
socket I-2	
1	Sensor supply L+
2	not used
3	Sensor supply L-
4	data input 2
5	not used
socket I-3/4	
1	voltage supply L+
2	data input 4
3	Sensor supply L-
4	data input 3
5	not used
socket I-4	
1	Sensor supply L+
2	not used
3	Sensor supply L-
4	data input 4
5	not used

Connector: 4 x M12

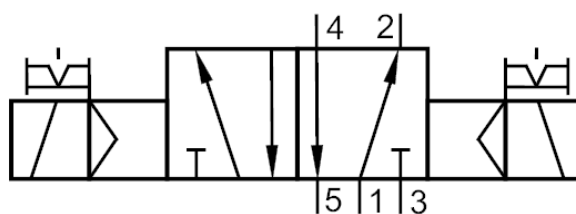


Connection



Diagrams and graphs

Pneumatic symbol



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