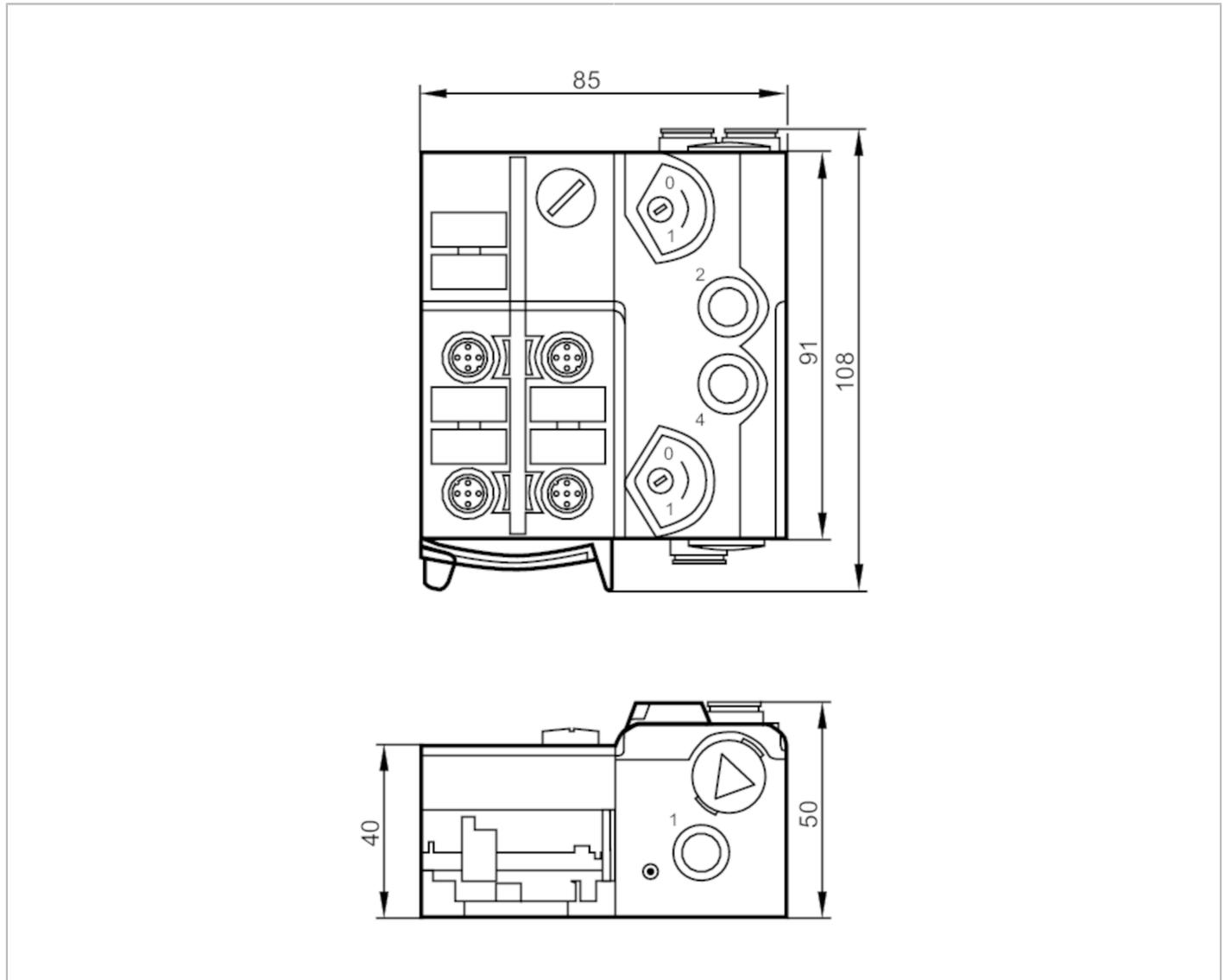


AC5251



AS-Interface Airbox with quick mounting technology

AirBox 5/2 bistable 4DI-Y IP67



Application	
Application	field installation
Medium temperature [°C]	-10...50
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
Inputs	
Number of digital inputs	4
Input circuit of digital inputs	PNP
Sensor supply of the inputs	AS-i

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Power 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
Switching level high	[V]	> 11
Digital inputs protected against short circuits		yes

Outputs

Number of pneumatic outputs	2; (pneumatic NO/NC selectable output ; bistable)
Actuator supply outputs	AS-i

Operating conditions

Ambient temperature	[°C]	-10...55
Protection		IP 65; IP 67

Tests / approvals

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	yes																									
AS-i master profile	M2; M3; M4																									
AS-i profile	S-7.A.E																									
AS-i I/O configuration	[hex] 7																									
AS-i ID code	[hex] A.E																									
Assignment of the data bits	<table border="1"> <thead> <tr> <th>data bit</th> <th>D0</th> <th>D1</th> <th>D2</th> <th>D3</th> </tr> </thead> <tbody> <tr> <td>input</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>socket</td> <td>I-1/2</td> <td>I-1/2 I-2</td> <td>I-3/4</td> <td>I-3/4 I-4</td> </tr> <tr> <td>pin</td> <td>4</td> <td>2 4</td> <td>4</td> <td>2 4</td> </tr> <tr> <td>pneumatic output</td> <td>2</td> <td>4</td> <td>-</td> <td>-</td> </tr> </tbody> </table>	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	-	-
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	-	-																						

Mechanical data

Weight	[g]	376
Housing		housing for DIN rail mounting
Type of mounting		quick mounting
Dimensions	[mm]	108 x 85 x 50
Materials		PA; POM; piercing contacts: CuSn6 nickel-plated and tin-plated
Pneumatic system		1 x 5/2-way slide valve (free from overlapping); bistable
Operating pressure range		3...8 bar 0.3...0.8 MPa 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
Exhaust		exhaust can be discharged through tube connection

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AS-Interface Airbox with quick mounting technology

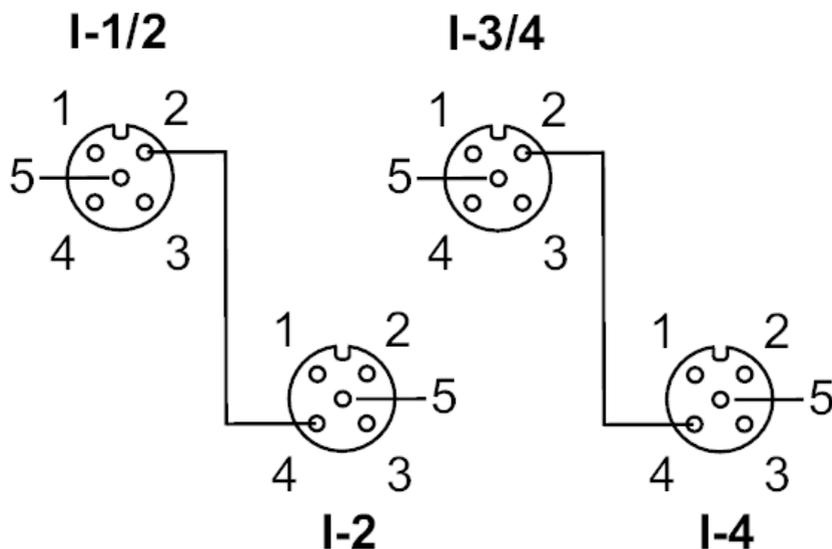
AirBox 5/2 bistable 4DI-Y IP67

Displays / operating elements		
Display	operation	LED, green
	errors	LED, red
	function	LED, yellow
Electrical connection		
Module connection	Flat cables	
Accessories		
Items supplied	lower part	
Accessories (optional)	Mounting plate:, E74999	
	Module lower part:, E75000	
	Protective cap: M12, E73004	
	sealing plugs:, 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	
	The connections are electrically connected with the AS-i cable.	
Please see the notes on compressed air and EMC/ESD under "Downloads"		
Pack quantity	1 pcs.	

Electrical connection

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

Connection





AS-Interface Airbox with quick mounting technology

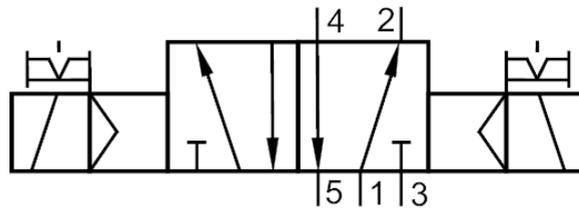
AirBox 5/2 bistable 4DI-Y IP67

Connector: M12

	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	power 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

Diagrams and graphs

Pneumatic symbol



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