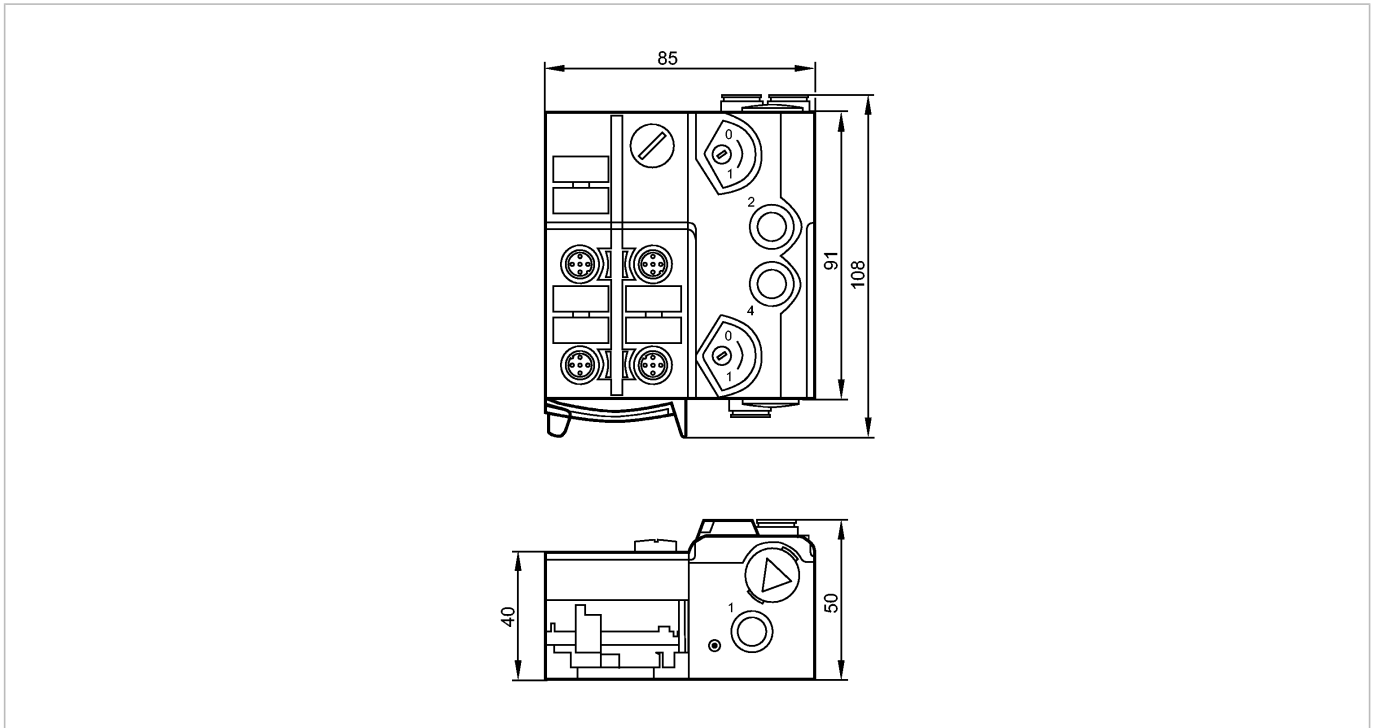


**AC5253**

AirBox 5/2 bistable 4DI-Y AUX

AS-Interface bus system



**Product characteristics**

AS-i AirBox
5/2-way bistable slide valve free from overlapping
Three orientations of the flat cable are possible
AS-i flat cable connection
Version 2.11 and 3.0 with extended addressing mode
Addressing socket

**Electrical data**

Electrical design	4 inputs / 2 outputs; AirBox supply via external 24 V DC
Operating voltage [V]	26.5...31.6 DC **)
Total current consumption from AS-i [mA]	< 280
Current consumption from 24 V DC [mA]	< 10

**Inputs**

digital	
Circuit	DC PNP
Sensor supply	AS-i
Voltage range [V]	20...30 DC *) **)
Max. current load for all inputs total [mA]	200
Input current High/Low [mA]	6...10 / 0...2
Switching level High signal 1 [V]	> 11
Short-circuit proof	yes

**Outputs**

digital	
Output function	common exhaust with tube connection

## AC5253

AirBox 5/2 bistable 4DI-Y AUX

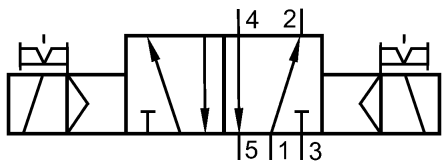
AS-Interface bus system

Voltage range [V]	18...30 DC
External voltage supply	according to PELV
Integrated watchdog	yes

Environment	
Ambient temperature [°C]	-10...55
Medium temperature [°C]	-10...50
Protection	IP 65 / IP 67

Tests / approvals	
EMC	EN 50295 IEC 61000-6-2
MTTF [Years]	216

AS-i classification																										
AS-i version	2.11 + 3.0																									
Extended addressing mode possible	yes																									
AS-i profile	S-7.A.E																									
I/O configuration [hex]	7																									
ID code [Hex]	A.E																									
AS-i certificate	in preparation																									
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																						
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Pin	4	2 4	4	2 4																						
Pneumatic output	2	4	-	-																						

Mechanical data	
Pneumatic system	1 x 5/2-way slide valve (free from overlapping); bistable
Pneumatic symbol	 <p>1 x 5/2-way slide valve (free from overlapping); bistable</p>
Operating pressure range [bar]	3...8
Operating pressure range [psi]	43.5...116
Air flow at 6/5 bar [Nl/min]	500
Operating medium to ISO 8573-1	non-lubricated compressed air class 6-3-1; lubricated compressed air class 6-3-4
Manual override	pressing/releasing or pressing/turning/locking
Tube fitting [mm]	8
Housing materials	PA; POM; Piercing contacts: CuSn6 surface nickel and tin-plated
Weight [kg]	0.374

Displays / operating elements	
Power LED	green
Error LED	red
Function display LED	yellow

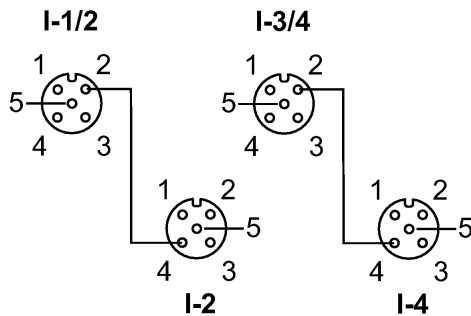
### Electrical connection

## AC5253

AirBox 5/2 bistable 4DI-Y AUX

AS-Interface bus system

### Wiring



Inputs	Socket I-3/4
Socket I-1/2	1: Power supply
1: Sensor supply	L+
L+	2: Data input 4
2: Data input 2	3: Sensor supply
3: Sensor supply	L-
L-	4: Data input 3
4: Data input 1	5: not used
5: not used	
	Socket I-4
	1: Sensor supply
	L+
	2: not used
	3: Sensor supply
	L-
	4: Data input 4
	5: not used
	Socket I-2
	1: Sensor supply
	L+
	2: not used
	3: Sensor supply
	L-
	4: Data input 2
	5: not used

### Accessories

Accessories (included)	lower part
Accessories (optional)	Mounting plate (E74999); Module lower part (E75000); M12 protective cap (E73004); Sealing plug (E75231); Silencer (E75232); Push-in L-fitting (E75228); Push-in T-fitting (E75227)

### Remarks

Remarks	<p>If not pneumatically operated, sealing plug E75231 must be inserted into the open connections to prevent dirt and dust from entering the system.</p> <p>Do not connect any of the points L-, L+, I-1, I-2, I-3, I-4 to an external potential since they are electrically connected to the AS-i cable.</p> <p>Notes on compressed air and EMC/ESD at <a href="http://www.ifm.com">www.ifm.com</a></p> <p>*) via flat cable</p> <p>**) For a cULus application</p> <ul style="list-style-type: none"> <li>- Operating voltage "supply class 2"</li> <li>- Ambient temperature fluid (air): - 10°C...+50°C</li> <li>- Minimum and maximum operating pressure</li> </ul> <p>The valve shall be used on a regulated pressure system with the maximum rating 100 psi. The valve shall be installed into a suitable enclosure or mounted in a guarded and protected location to prevent accidental contact in the end-use product.</p>
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Pack quantity	[piece]	1
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