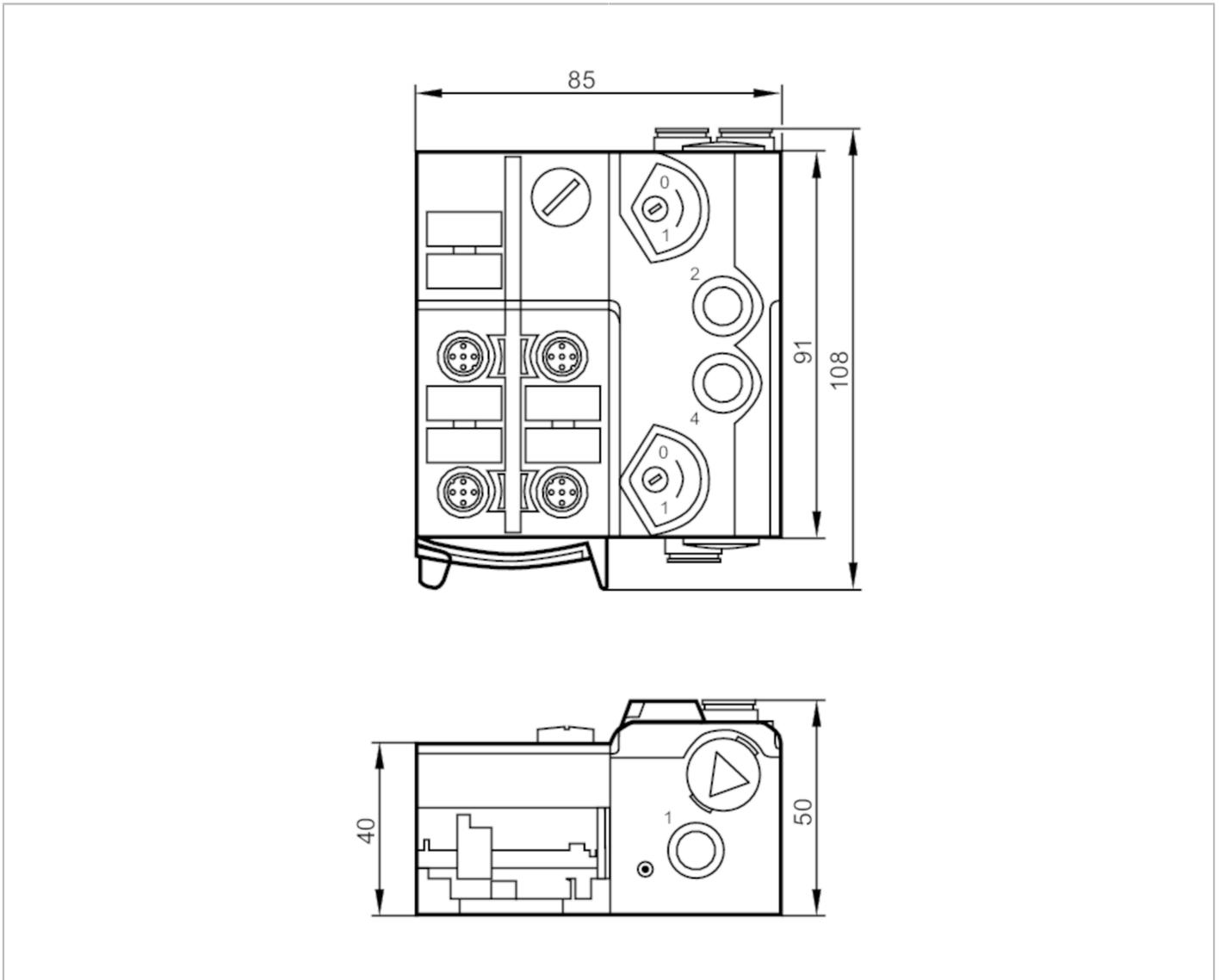


AC246A



AS-Interface Airbox

AirBox 5/2 2DI-Y II 3D



Application	
Design	housing for DIN rail mounting
Application	AS-i ATEX module
Electrical data	
Operating voltage [V]	26.5...31.6 DC
Max. current consumption from AS-i [mA]	300
Integrated watchdog	yes
Inputs / outputs	
Number of inputs and outputs	Number of digital inputs: 2; Number of pneumatic outputs: 1
Inputs	
Number of digital inputs	2
Input circuit of digital inputs	PNP
Sensor supply of the inputs	AS-i

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AS-Interface Airbox

AirBox 5/2 2DI-Y II 3D

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

Outputs

Electrical design		AS-i
Number of pneumatic outputs		1

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
MTTF	[years]	351

AS-i classification

AS-i version		2.11; 3.0																									
AS-i addressing		Addressing socket																									
Extended addressing mode		no																									
AS-i master profile		M2; M3; M4																									
AS-i profile		S-3.F.F																									
AS-i I/O configuration	[hex]	3																									
AS-i ID code	[hex]	F.F																									
AS-i certificate pending		yes																									
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>-</td> <td>-</td> </tr> <tr> <td>Pin</td> <td>4</td> <td>2 4</td> <td>-</td> <td>-</td> </tr> <tr> <td>pneumatic output</td> <td>-</td> <td>-</td> <td>4</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	-	-	Pin	4	2 4	-	-	pneumatic output	-	-	4	-
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pneumatic output	-	-	4	-																							

Mechanical data

Weight	[g]	403
Housing		rectangular
Type of mounting		quick mounting; Mounting on DIN rail; (TH35 (EN 60715))
Dimensions	[mm]	108 x 85 x 50
Material		PA; POM; Piercing contacts: CuSn6 nickel-plated and tin-plated
Pneumatic system		1 x 5/2-way slide valve (free from overlapping)
Operating pressure range		3...8 bar 0.3...0.8 MPa
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

AirBox 5/2 2DI-Y II 3D

Displays / operating elements		
Display	Power	LED, green
	errors	LED, red
	Function	LED, yellow
Electrical connection		
Module connection	Flat cable	
Accessories		
Items supplied	lower part	
Accessories (optional)	Mounting plate:, E74999	
	Module lower part:, E75000	
	Protective cap: M12, E73004	
	sealing plug:, 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-1/2, I-2	
	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.	

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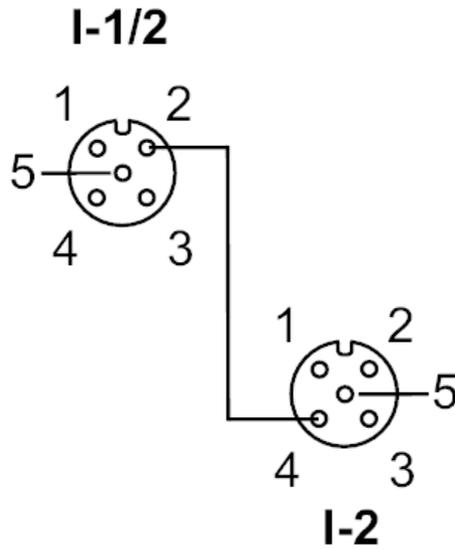
AS-Interface Airbox

AirBox 5/2 2DI-Y II 3D

Electrical connection

quick mounting technology for AS-i flat cable: ; three selectable directions

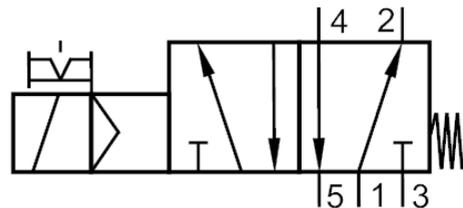
Connection



- | | |
|---|------------------|
| | Input |
| | 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 |

Diagrams and graphs

Pneumatic symbol



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