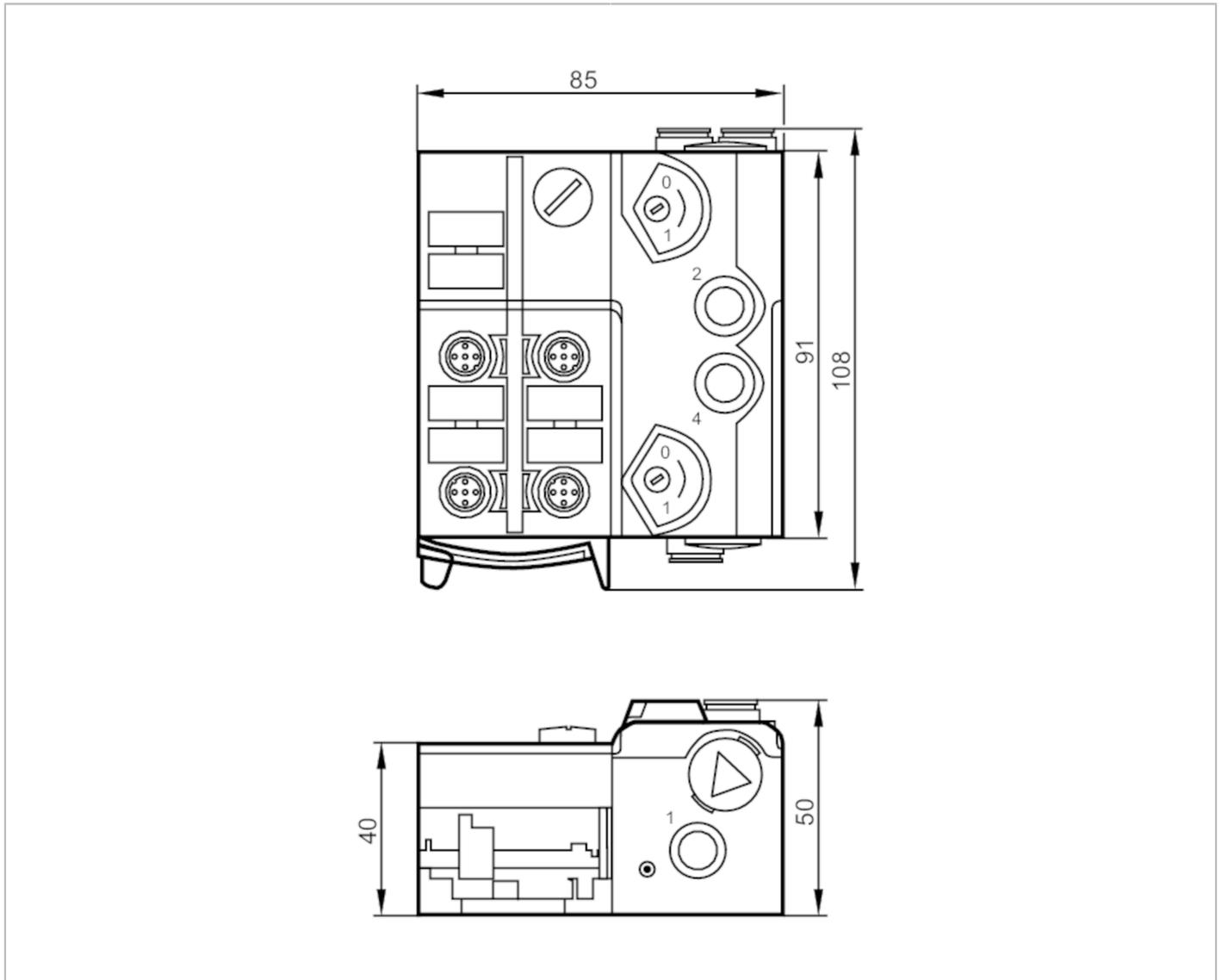


AC551A



AS-Interface Airbox with quick mounting technology

AirBox 5/2 bist. 4DI-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]	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

AC551A



AS-Interface Airbox with quick mounting technology

AirBox 5/2 bist. 4DI-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		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		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			
AS-i certificate pending		yes			
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	-	-

Mechanical data

Weight	[g]	413.5
Housing		rectangular
Type of mounting		quick mounting; AS-i flat cable connection; 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); bistable
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

AC551A



AS-Interface Airbox with quick mounting technology

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

Exhaust	exhaust can be discharged through tube connection
---------	---

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

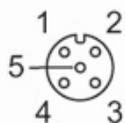
Remarks	<p>Mechanical protection has to be implemented.</p> <p>Otherwise the unit must be installed together with the impact protection housing (E7000A).</p> <p>If not pneumatically operated, E75231 sealing plug must be inserted.</p> <p>Avoid ingress of dirt and dust.</p> <p>Do not connect any of the following points to an external potential:</p> <p>L-, L+, I-1, I-2, I-3, I-4</p> <p>The connections are electrically connected with the AS-i cable.</p> <p>Please see the notes on compressed air and EMC/ESD under "Downloads"</p>
---------	---

Pack quantity	1 pcs.
---------------	--------

Electrical connection

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

Connector: 4 x M12; coding: A



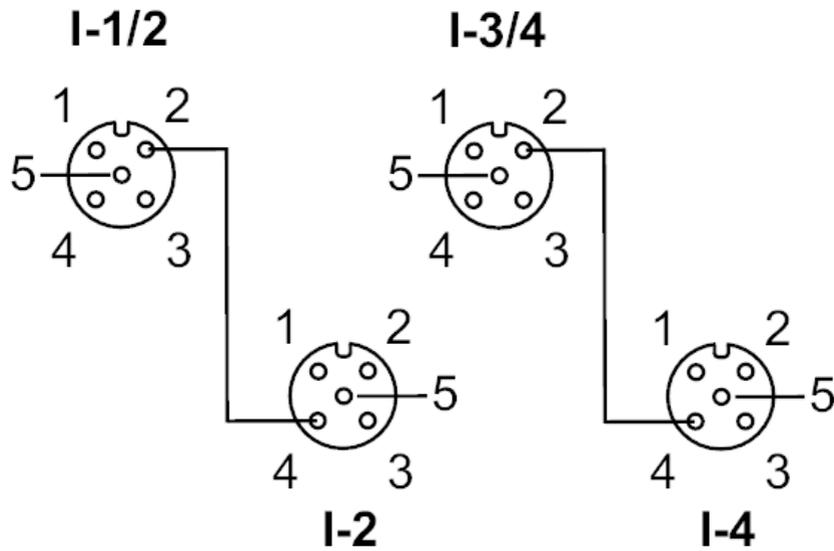
AC551A



AS-Interface Airbox with quick mounting technology

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

Connection



	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

AC551A

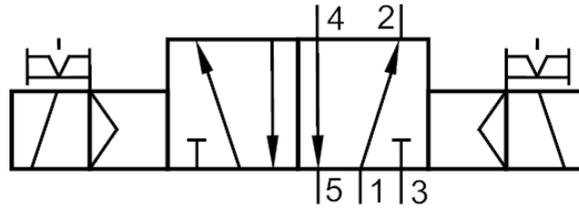


AS-Interface Airbox with quick mounting technology

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

Diagrams and graphs

Pneumatic symbol



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