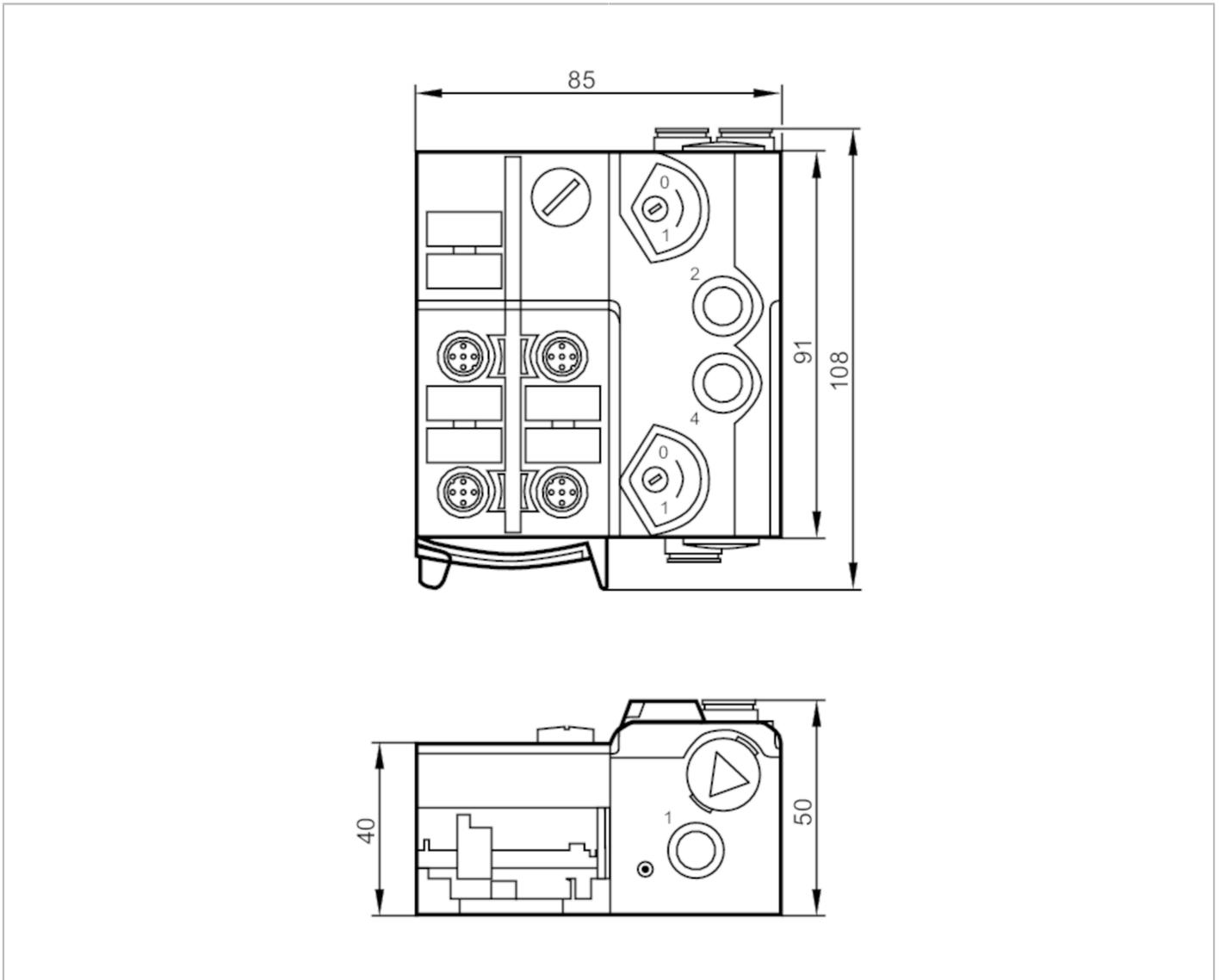# AC5243

AS-Interface Airbox with quick mounting technology

AirBox 2x3/2 4DI-Y IP67 AUX

Application	
Design	housing for DIN rail mounting
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
Additional voltage supply [V]	18...30 DC; (to PELV)
Additional voltage supply	required
Max. current consumption from additional supply [mA]	10
Integrated watchdog	yes

AC5243

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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
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	
Number of pneumatic outputs	2; (supply: external 24 V power supply)
Actuator supply outputs	AUX

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

Tests / approvals		
EMC		EN 50295
		IEC 61000-6-2
MTTF	[years]	237

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		
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]	381.5		
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		2 x 3/2-way slide valves (free from overlapping)		
Operating pressure range		2...8 bar	0.2...0.8 MPa	29...116 psi

AC5243

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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	

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
	Silencer:, E75232
	Push-in L-fitting:, E75228
	Push-in T-fitting:, E75227

Remarks

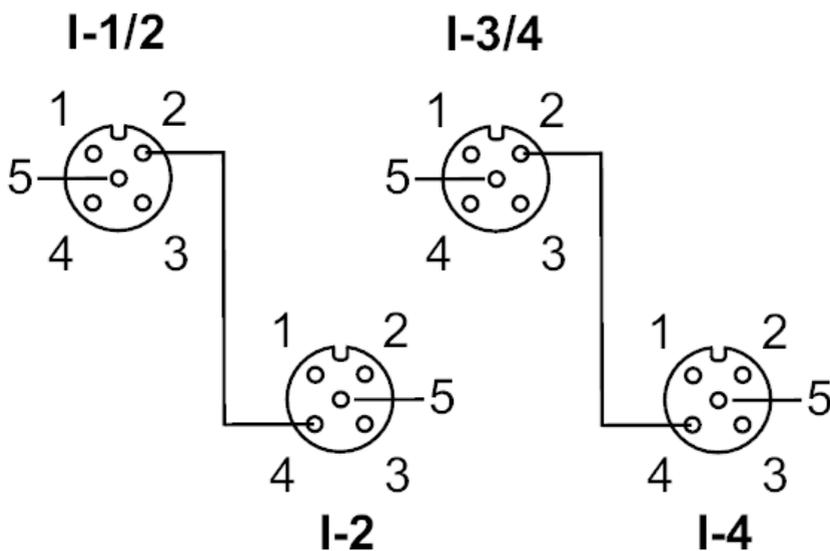|	
Remarks	If not pneumatically operated, E75231 sealing plug must be inserted.
	Avoid ingress of dirt and dust.
	Do not connect any of the following points to an external potential:
	L-, L+, I-1, I-2, I-3, I-4
	The connections are electrically connected with the AS-i cable.
	Please see the notes on compressed air and EMC/ESD under "Downloads"
Pack quantity	1 pcs.

AC5243

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Electrical connection

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

Connection

Connector: M12

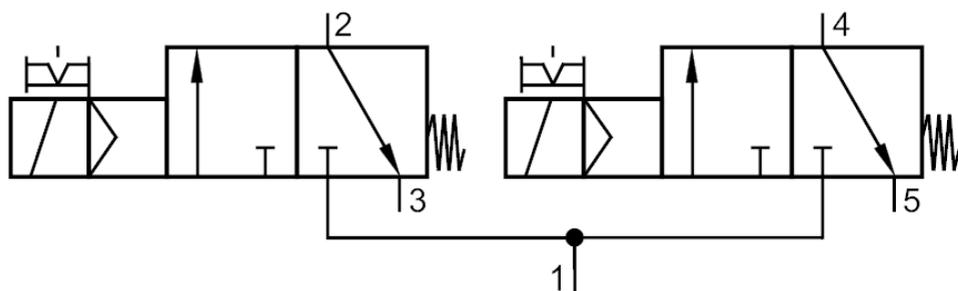|	Inputs
	Socket I-1/2
1	Sensor supply L+
2	Data input 2
3	Sensor supply L-
4	Data input 1
5	not used
	Socket I-2
1	Sensor supply L+
2	not used
3	Sensor supply L-
4	Data input 2
5	not used
	Socket I-3/4
1	voltage supply L+
2	Data input 4
3	Sensor supply L-
4	Data input 3
5	not used
	Socket I-4
1	Sensor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

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Diagrams and graphs

Pneumatic symbol

2 x 3/2-way slide valves (free from overlapping)