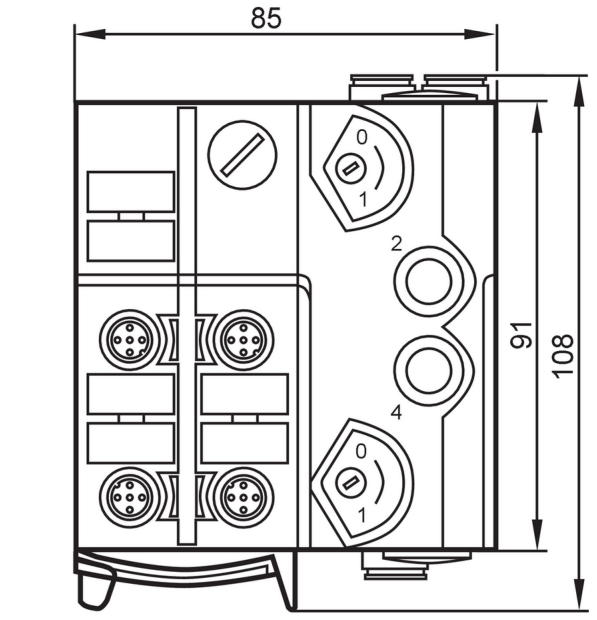
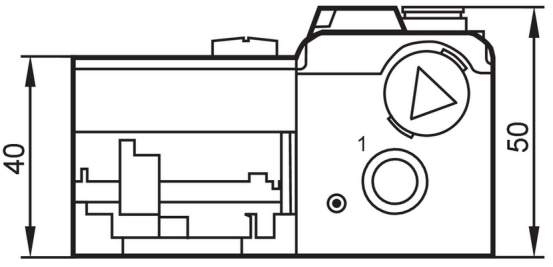
AC5253

AS-Interface Airbox with quick mounting technology

AirBox 5/2 bistable 4DI-Y 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
Inputs / outputs		
Number of inputs and outputs		Number of digital inputs: 4; Number of pneumatic outputs: 2
Inputs		
Number of digital inputs		4

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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; (pneumatic NO/NC selectable output ; bistable; 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]	216

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

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]	379.5
Housing		rectangular
Type of mounting		quick mounting; AS-i flat cables directly connectable; mounting on DIN rail; (TH35 (EN 60715))
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

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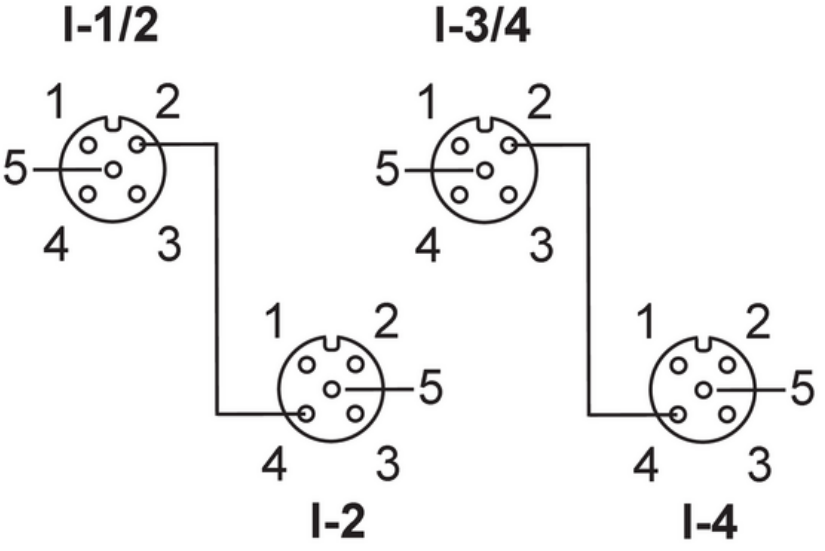
AirBox 5/2 bistable 4DI-Y AUX

Tube fittings	8 mm	
Exhaust	exhaust can be discharged through tube connection	
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



AC5253

AS-Interface Airbox with quick mounting technology

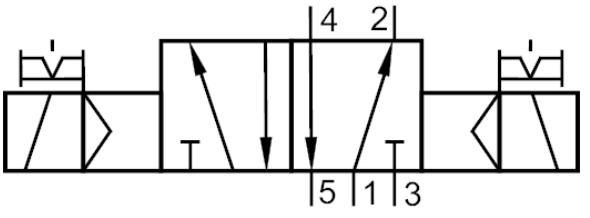
AirBox 5/2 bistable 4DI-Y AUX

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

Diagrams and graphs

Pneumatic symbol



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