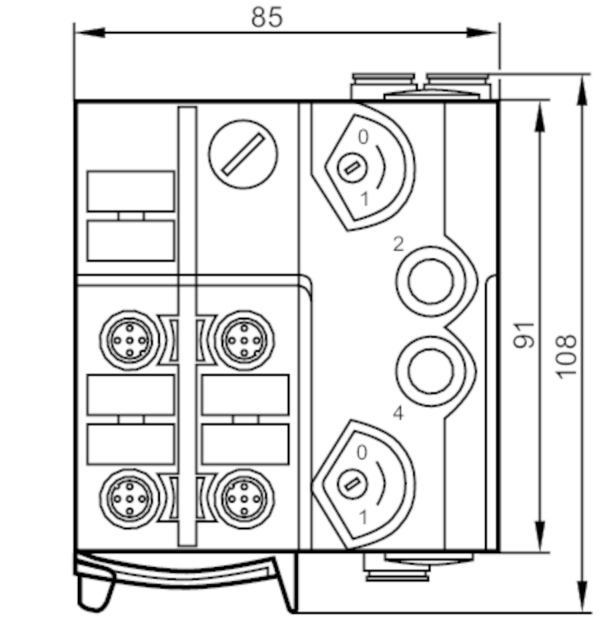
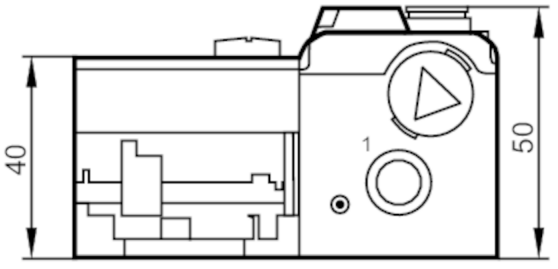
AC5227

AS-Interface Airbox with quick mounting technology

AirBox 2x3/2 2DI IP67





Application		
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]	180
Integrated watchdog		yes
Inputs / outputs		
Number of inputs and outputs		Number of digital inputs: 2; Number of pneumatic outputs: 2
Inputs		
Number of digital inputs		2
Input circuit of digital inputs		PNP
Sensor supply of the inputs		AS-i

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Power supply	[V]	20...30; (via flat cable)
Max. total current rating of inputs	[mA]	100
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
Actuator supply outputs		AS-i

Operating conditions

Ambient temperature	[°C]	-10...55
Protection		IP 67

Tests / approvals

EMC		EN 50295
		IEC 61000-6-2
MTTF	[years]	321

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

Assignment of the data bits

data bit	D0	D1	D2	D3
input	1	2	3	4
socket	I-1	I-2	-	-
pin	2+4	2+4	-	-
pneumatic output	-	-	2	4

Mechanical data

Weight	[g]	355.9
Type of mounting		quick mounting
Materials		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	[bar]	2...8
Operating pressure range	[MPa]	0.2...0.8
Operating pressure range	[psi]	29...116
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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Displays / operating elements		
Display	operation	LED, green
	errors	LED, red
	function	LED, yellow

Electrical connection	
Module connection	Flat cables

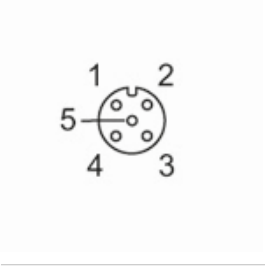
Accessories	
Items supplied	lower part
Accessories (optional)	Mounting plate:, E74999
	Module lower part:, E75000
	Protective cap: M12, E73004
	sealing plugs:, E75231
	silencer:, E75232
	Push-in L-fitting:, E75228
	Push-in T-fitting:, E75227

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
	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

Connector: M12; coding: A



	Inputs
1	power supply L+
2	not used
3	Sensor supply L-
4	data input
5	not used

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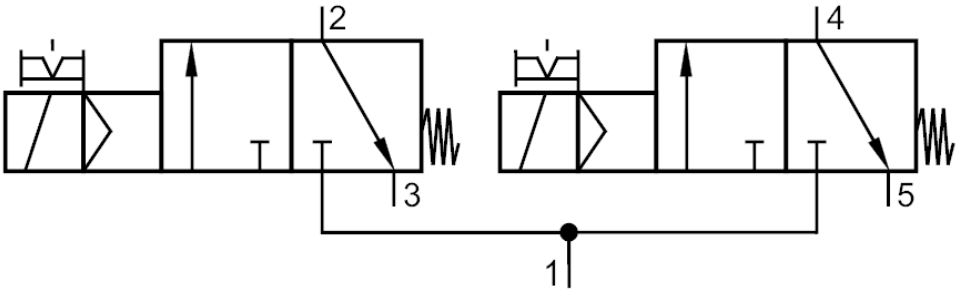
Diagrams and graphs

Pneumatic symbol



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