

AC5251



AS-Interface Airbox with quick mounting technology

AirBox 5/2 bistable 4DI-Y 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]	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



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Подача напруги	[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)			
Actuator supply outputs		AS-i			
Operating conditions					
Ambient temperature	[°C]	-10...55			
Protection		IP 65; IP 67			
Tests / approvals					
EMC		EN 50295			
		IEC 61000-6-2			
MTTF	[ANN]	258			
AS-i classification					
AS-i version		2.11; 3.0			
AS-i addressing		addressing socket			
Розширений режим адресації		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]	376			
Type of mounting		quick mounting			
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	[bar]	3...8			
Operating pressure range	[MPa]	0.3...0.8			
Operating pressure range	[psi]	43.5...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			

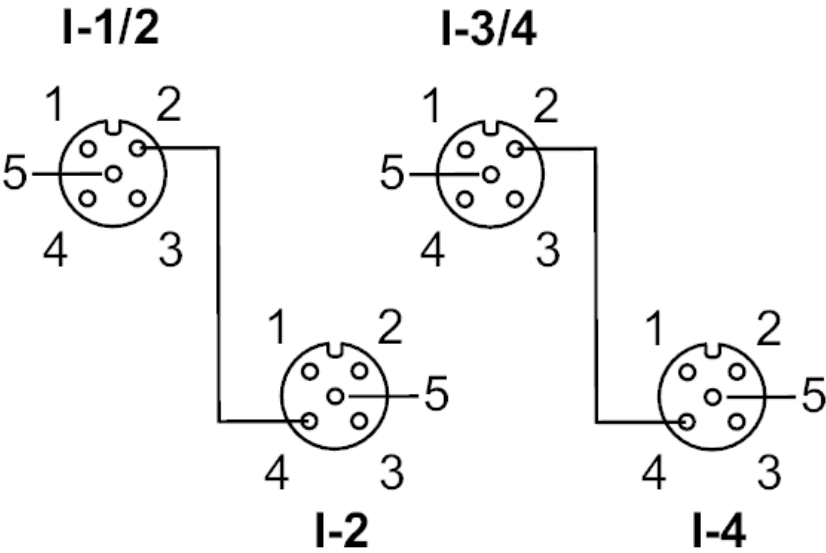


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Displays / operating elements		
Display	operation	LED, green
	errors	LED, red
	function	LED, yellow
Electrical connection		
Module connection	Приладдя	
Аксессуары		
Items supplied	lower part	
Accessories (optional)	Mounting plate:, E74999	
	Module lower part:, E75000	
	Protective cap: M12, E73004	
	Ущільнювальна заглушка:, 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	





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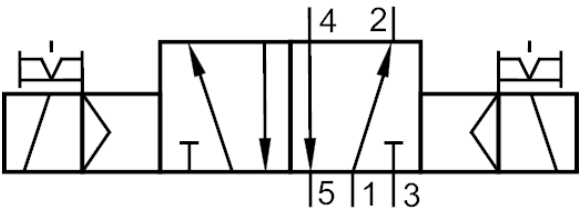
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Connector: M12

	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	подача напруги 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