

AC5228



AS-Interface Airbox with quick mounting technology

AirBox 2x3/2 4DI-Y IP67



Application

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



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Inputs						
Number of digital inputs		4				
Input circuit of digital inputs		PNP				
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				
Min. switching level high signal [V]		11				
Digital inputs protected against short circuits		yes				
Sensor supply of the inputs		AS-i				
Outputs						
Electrical design		AS-i				
Number of pneumatic outputs		2				
Operating conditions						
Ambient temperature [°C]		-10...55				
Protection		IP 65; IP 67				
Tests / approvals						
EMC		EN 50295				
		IEC 61000-6-2				
MTTF [years]		287				
AS-i classification						
AS-i version		2.11 + 3.0				
AS-i addressing		addressing socket				
Extended addressing mode possible		yes				
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				
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	-	-



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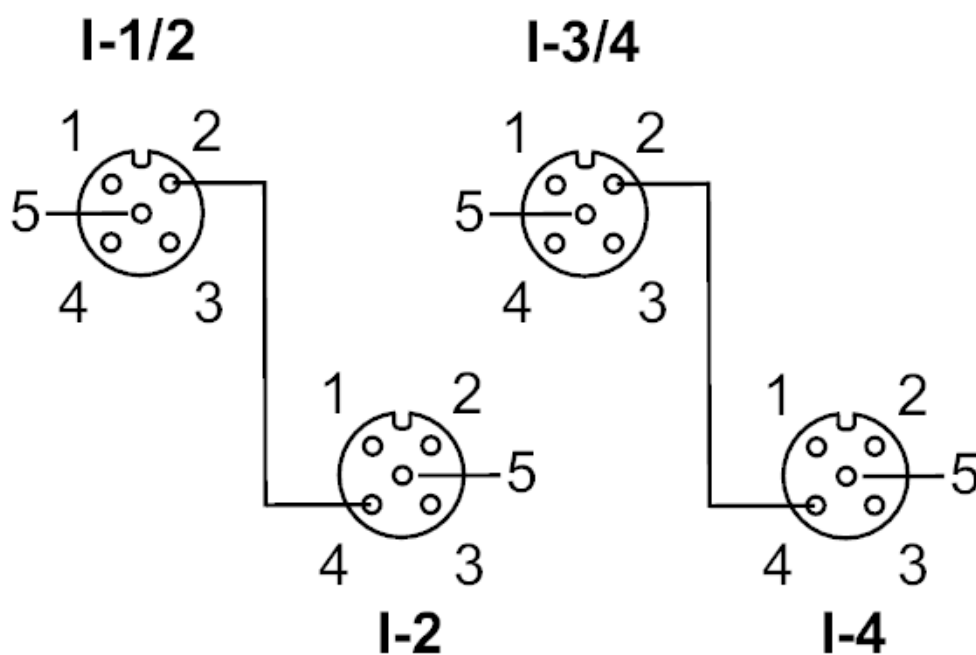
AirBox 2x3/2 4DI-Y IP67

Mechanical data		
Weight	[g]	375
Type of mounting		AS-i flat cables directly connectable
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
Exhaust		exhaust can be discharged through tube connection
Displays / operating elements		
Display	operation	LED, green
	errors	LED, red
	function	LED, yellow
Accessories		
Accessories (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.
Pack quantity		Notes on compressed air and EMC/ESD at www.ifm.com
		1 pcs.

Electrical connection

quick mounting technology for AS-i flat cable: ; three orientations possible

Connection





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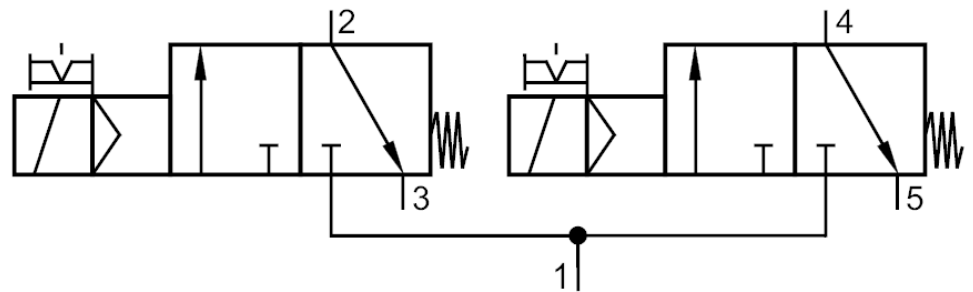
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Inputs	
socket I-1/2	
1	Sensor supply L+
2	data input 2
3	Sensor supply L-
4	data input 1
5	not used
socket I-2	
1	Sensor supply L+
2	not used
3	Sensor supply L-
4	data input 2
5	not used
socket I-3/4	
1	Sensor supply L+
2	data input 4
3	Sensor supply 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

Connector: M12

Diagrams and graphs

Pneumatic symbol



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