

## AS-i Module for controlling damper actuators and for detection the damper position

Supply of motors by external 24V

Runtime monitoring of the damper motor in master possible

Connection by external flat cable terminal via insulation penetration technology

AS-i Specifications 2.1/3.0



### Article no. BW2029: Power supply by external 24V

The AS-i module to control damper actuators meets the requirements of the AS-i Specifications 2.1/3.0. It is used to control the damper actuator and detect the damper position **damper open** and **damper close** as well as the intermediate position „**damper opens**“ or „**damper closes**“.

In addition external contact can be requested, e.g. of an smoke detector or an temperature switch.

The connections are short-circuit -and overload protected. A watchdog function, which switches the outputs to their current-less switching state if there is no communication on the AS-i circuit, is integrated. The transfer function is permanent monitored in the integrated AS-i Slave and in the AS-i Master.

This module can be connected via cage clamp terminals or ready to plug via Belimo-compatible connector.

Article no.	BW2029
<b>Connections</b>	
Damper actuator	cage clamp terminals or Belimo-compatible connectors
AS-i	cage clamp terminals
<b>AS-i</b>	
Profile	S-7.A.E
Address	1 AB slave
Operating voltage	26,5 ... 31,6 V <sub>DC</sub>
Quiescent current (Inputs = 0, Outputs = 0)	≤ 20mA
Required Master profile	≥ M0
Since AS-i specification	2.0
Max. current consumption	35mA
<b>AUX</b>	
Voltage	24V (18 ... 30V)
Max. current consumption	400mA
<b>Input</b>	
Number	3 (electronic)
Power supply	out of AUX
Power supply of attached sensors	max. 400 mA ∑ (sensors, outputs) ≤ 400 mA
Switching threshold	≤ 0,8mA (low) ≥ 5mA (high)
<b>Output</b>	
Number	2
power supply	out of AUX
Max. output current	400 mA
Output function	electrical
Short-circuit proof	yes
Loading capacity	400 mA per output

<b>Article no.</b>	<b>BW2029</b>
<b>Display</b>	
Operating	LED green
Function	LED yellow
Inputs 1 - 3	3 x LEDs yellow
Outputs 1 - 2	2 x LEDs yellow
<b>Environment</b>	
Applied standards	EN 61 000-6-2 EN 61 000-6-3 EN 61 000-6-4
Operating temperature	-25°C ... +60°C
Storage temperature	-40°C ... +70°C
Protection category	IP54
Housing	plastic, for DIN rail mounting
Dimensions (W / H / D in mm)	90 / 160 / 55
Weight	250 g

Programming	Bit setting			
	D0	D1	D2	D3
	<b>Input</b>			
	I1	I2	I3	I4
<b>BW2029</b>	damper closed	damper open	external contact	-
	<b>Output</b>			
	O1	O2	O3	O4
<b>BW2029</b>	open damper	close damper	-	-
	<b>Parameter bit</b>			
	P0	P1	P2	P3
<b>BW2029</b>	not used	not used	not used	1: Peripheral fault is indicated 0: Peripheral fault is <i>not</i> indicated
	<b>Programming</b>			
<b>BW2029</b>	preset: address 0 changeable via busmaster-programming devices			

Terminal connections		
	X1	X2
1	AS-i +	I3
2	AS-i +	+24 V <sub>ext. out</sub>
3	AS-i -	I2
4	AS-i -	+24 V <sub>ext. out</sub>
5	+ 24 V <sub>ext. in</sub>	I1
6	+ 24 V <sub>ext. in</sub>	+24 V <sub>ext. out</sub>
7	0 V <sub>ext. in</sub>	I4
8	0 V <sub>ext. in</sub>	+24 V <sub>ext. out</sub>
9		O1
10		0 V <sub>ext. out</sub>
11		O2
12		0 V <sub>ext. out</sub>
<b>X3 (socket for prefabricated AMP plug (6 fold))</b>		
damper position		
<b>X4 (socket for prefabricated AMP plug (3 fold))</b>		
damper actuator		

### Accessories:

- AS-i passive distributor to round cable (art. no. BW2890)
- Connecting cable 40 cm with M12 plug (art. no. BW2065)
- AS-i passive distributor, AS-i flat cable to M12 (art. no. BW1239)
- AS-i passive distributor, AS-i/24 V to M12 (art. no. BW1976)