

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

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. BW2028: Supplied by AS-i

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.

<b>Article no.</b>	<b>BW2028</b>
<b>Connections</b>	
Damper actuator	cage clamp terminals or Belimo-compatible connectors
AS-i	cage clamp terminals
<b>Properties</b>	
Achievement	4 inputs / 2 outputs
Output function	transistor PNP
Operating voltage	26,5 ... 31,6V DC
Quiescent current (Inputs = 0, Outputs = 0)	≤ 20mA
Max. current consumption incl. motor	≤ 420mA
Short-circuit proof	yes
Protective circuit of inputs	DC PNP
Sensor supply	by AS-i
Voltage range	18 ... 30V DC
Switching threshold of inputs U	≤ 0,8mA (low); ≥ 5mA (high) 18 ... 30V DC
Loading capacity	400mA per output (sum of all outputs ≤ 400mA) out of AS-i
I/O configuration	7
ID code	D
<b>Displays</b>	
Operating	LED green
Function	LED yellow
Inputs 1 - 4	4 x LEDs yellow
Outputs 1 - 2	2 x LEDs yellow
<b>Standard conformity</b>	
EMC	EN 61 000-6-2 EN 61 000-6-3 EN 61 000-6-4
AS-i profile	S 7. D

#### Programming (Bit-setting)

##### Data bit (input via AS-i)

Bit	Function
D0	Input I1 (damper closed)
D1	Input I2 (damper open)
D2	Input I3 (external contact)
D3	Input I4 (reserved)
D0	Output O1 (damper open up)
D1	Output O2 (reserved)

##### Parameter bit

Bit P3:	Function
1:	Peripheral fault is indicated
0:	Peripheral fault is <i>not</i> indicated

**Bit P1, P2:**  
not used

##### Programming:

preset: address 0  
changeable via busmaster-programming devices

##### 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)

# AS-i Module to control damper actuators

<b>Article no.</b>	<b>BW2028</b>
<b>Housing</b>	
Operating temperature	-25°C ... +60°C
Storage temperature	-40°C ... +70°C
Protection category	IP54
Housing	synthetic material
Dimensions (W / H / D in mm)	90 / 160 / 55
Weight	250 g

## Terminal connections:

	X1	X2	X5
1	AS-i +	In 3	In 4
2	AS-i +	+24V	+24V
3	AS-i -	In 2	S6
4	AS-i -	+24V	S4
5		In 1	S2
6		+24V	S1
7		In 4	
8		+24V	
9		Out 1	2
10		0V	1
11		Out 2	
12		0V	