AS-i Module to control damper actuators

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**
Connections	
Damper actuator	cage clamp terminals or Belimo-compatible connectors
AS-i	cage clamp terminals
AS-i	
Profile	S-7.A.E
Address	1 AB slave
Operating voltage	26,5 ... 31,6V DC
Quiescent current (Inputs = 0, Outputs = 0)	≤ 20mA
Required Master profile	≥ M0
Since AS-i specification	2.0
Max. current consumption	35mA
AUX	
Voltage	24V (18 ... 30V)
Max. current consumption	400mA
Input	
Number	3 (electronic)
Power supply	out of AUX
Power supply of attached sensors	max. 400mA ∑ (sensors, outputs) ≤ 400mA
Switching threshold	≤ 0,8mA (low) ≥ 5mA (high)
Output	
Number	2
power supply	out of AUX
Max. output current	400mA
Output function	electrical
Short-circuit proof	yes
Loading capacity	400mA per output

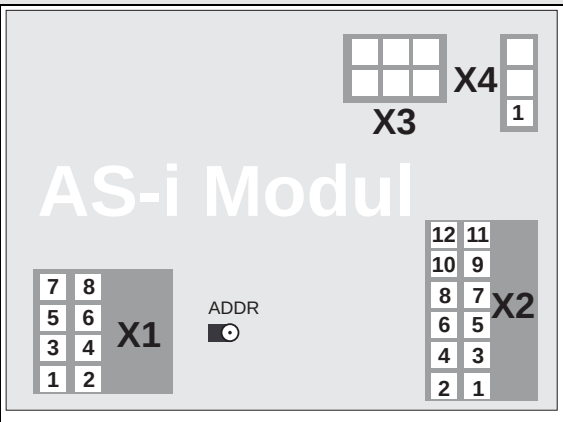
AS-i Module to control damper actuators

Article no.	BW2029
Display	
Operating	LED green
Function	LED yellow
Inputs 1 - 3	3 x LEDs yellow
Outputs 1 - 2	2 x LEDs yellow
Environment	
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	synthetic material
Dimensions (W / H / D in mm)	90 / 160 / 55
Weight	250 g

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

Terminal connections:

	X1	X2	X5
1	AS-i +	In 3	In 4
2	AS-i -	+24V ext. out	+24V ext. out
3	+ 24V ext. in	In 2	
4	0V ext. in	+24V ext. out	
5		In 1	
6		+24V ext. out	
7		In 4	
8		+24V ext. out	
9		Out 1	
10		0V ext. out	
11		Out 2	
12		0V ext. out	



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)**