

## ASi Module for controlling damper actuators and for detection the damper position

Runtime monitoring of the damper motor in master possible

ASi Connection by external flat cable terminal via insulation penetration technology prefabricated

ASi Specifications 2.1/3.0



(Figure similar)

### Article no. BW2028: ASi Module for controlling damper actuators and for detection the damper position, power supply out of ASi

The ASi module to control damper actuators meets the requirements of the ASi 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 ASi circuit, is integrated. The transfer function is permanent monitored in the integrated ASi Slave and in the ASi Master.

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

The module is equipped with advanced diagnostic capabilities and is able, by an short circuit at the outputs, to trigger a peripheral error message in the master.

<b>Article no.</b>	<b>BW2028</b>
<b>Connections</b>	
Damper actuator	cage clamp terminals or Belimo compatible connectors
ASi	cage clamp terminals
Length of connector cable to motor	≤ 30 m <sup>(1)</sup>
<b>ASi</b>	
Profile	S- 7.D.E (ID1=F default)
Address	1 single slave
Required Master profile	≥M3
Since ASi specification	2.1/3.0
Operating voltage	30 V (26,5 ... 31,6 V)
Max. current consumption	≤420 mA
Max. current consumption without sensor/ actuator supply	≤20 mA
<b>Input</b>	
Number	4
Power supply	out of ASi
Sensor supply	short-circuit and overload protected according to EN 61131-2
Power supply of attached sensors	max. 400 mA ∑ (In/Out) ≤400mA
Switching threshold	≤0,8 mA (low); ≥5 mA (high)

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<b>Output</b>	
Number	2
Power supply	out of ASi
Output	short-circuit and overload protected according to EN 61131-2
Max. output current	max. 400 mA $\sum (In/Out) \leq 400mA$
<b>Display</b>	
Operating (AUX)	LED green
Function (ASi)	LED green
Error (ERR)	LED red = ASi fault; flashing = peripheral fault
Inputs (DI) 1, 3, 4	4 x LEDs yellow
Input (DI) 2	LED blue <sup>(2)</sup>
Outputs (DO) 1 ... 2	2 x LEDs yellow
<b>Environment</b>	
Applied standards	EN 60529 EN 61131-2 EN 61 000-6-2 EN 61 000-6-3 EN 61 000-6-4
Operating altitude	max. 2000
Operating temperature	-25°C ... +60°C
Storage temperature	-30°C ... +70°C
Housing	plastic, screw mounting
Pollution degree	2
Protection category	IP54
Tolerable loading referring to humidity	acc. EN 61131-2
Insulation voltage	≥500 V
Weight	250 g
Dimensions (W / H / D in mm)	90 / 160 / 55

(1) Loop resistance  $\leq 150 \Omega$

(2) from Ident.No.  $\geq 17303$ .

Programming	Bit setting			
	D3	D2	D1	D0
	input			
	I4	I3	I2	I1
<b>BW2028</b>	reserved	external contact	damper open	damper closed
	output			
	O4	O3	O2	O1
<b>BW2028</b>	–	–	–	fire damper: damper opens
			ventilation/smoke: damper closes	ventilation/smoke damper: damper opens

Programming	Parameter bit			
	P3	P2	P1	P0
<b>BW2028</b>	not used	1: Peripheral fault is indicated 0: Peripheral fault is not indicated	not used	not used
	programming note			
<b>BW2028</b>	preset: address 0 changeable via busmaster programming device			

Terminal connections:			
	X1	X2	X5
1	ASi +	I3	I4
2	ASi +	24 V <sub>out</sub> of ASi	24 V <sub>out</sub> of ASi
3	ASi -	I2	S6
4	ASi -	24 V <sub>out</sub> of ASi	S4
5		I1	S2
6		24 V <sub>out</sub> of ASi	S1
7		I4	
8		24 V <sub>out</sub> of ASi	
9		O1	2
10		0 V <sub>out</sub> of ASi	1
11		O2	
12		0 V <sub>out</sub> of ASi	

### Accessories:

- Passive Distributor ASi to 1 x round cable/connecting wires, depth 19 mm, IP67 (art. no. BW3186)