

# ASi-3 8I/8O- / 16I/16O AB Module in sheet-iron casing

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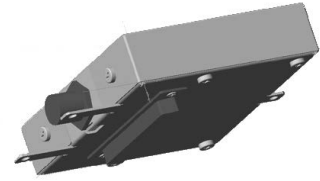
2 4I/4O AB modules (up to 62 ASi nodes)

## ASi-3 16I/16O AB Module in sheet-iron casing

4 4I/4O AB modules (up to 62 ASi nodes)



BW2130



BW2131



### Article no. BW2130 AS-3 8I/8O AB Module in sheet-iron casing

### Article no. BW2131 AS-3 16I/16O AB Module in sheet-iron casing

The ASi Special module is realized by 2 resp. 4 ASi nodes. The board is completely powered by ASi.

If bus communication is interrupted (master failure), the outputs are switched to their currentless switching state by the watchdog.

Using the inputs/outputs you can drive up to 8 resp. 16 LEDs. The power is drawn from separated 24 V.

The addressing of 2 resp. 4 ASi nodes is very easy with the help of 2 resp. 4 addressing sockets.

Article no.	BW2130	BW2131
<b>General data</b>		
Device type	input/output	
<b>Connections</b>		
ASi/AUX connection	wiring pins	
Peripheral connection	wiring pins	
<b>ASi</b>		
Profile	S-7.A.7, ID1= 7 (fixed)	
Addressing	2 AB addresses	4 AB addresses
ASi specification	ASi-3	
Operating current	≤ 400 mA	≤ 500 mA
U	20 ... 30 V <sub>DC</sub>	
Length of connector cables	I/O: max. 1,5 m	
Quiescent current (inputs = 0, outputs = 0)	≤ 40 mA	≤ 50 mA
<b>Inputs</b>		
Number	8	16
Operating voltage	via ASi	
Switching threshold of inputs	≤ 0,3 mA (low) ≥ 2 mA (high)	
<b>Outputs</b>		
Number	8	16
Loading capacity	70 mA per output (sum of all outputs < 200 mA) 24 V DC, no short circuit, no inductive load	

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Article no.	BW2130	BW2131
<b>Environment</b>		
Applied standards	EN 61 000-6-2 EN 61 000-6-4	
Passive safety (up to PLe/SIL 3)	yes <sup>1</sup>	
Ambient operating temperature	-25°C ... +70°C	
Storage temperature	-40°C ... +70°C	
Coating	coated	
Protection category EN 60 529	IP00	
Allowable shock -and vibration stress	≤ 15 g, T ≤ 11 ms 10 ... 55 Hz, 0,5 mm amplitude	
Dimensions (L / W / H in mm)	90 / 37 / 126	97 / 29 / 110

1. Exclusion of errors for the connection of the two ASi and AUX potentials can be assumed in the module. Passive safety for the application can only be achieved if this is ensured for all components used.

## Programming: ASi bit assignment

Article no.	Byte	Bit			
		D3	D2	D1	D0
		input			
BWU2130, BWU2131	0	I4	I3	I2	I1

Article no.	Byte	Bit			
		D3	D2	D1	D0
		output			
BWU2130, BWU2131	0	O4	O3	O2	O1

Programming	Parameter bit			
	P3	P2	P1	P0
BWU2130, BWU2131	not used	0 = On/1 = Off (syn- chronous data I/O-mode)	0 = On/1 = Off (Data input filter 128 µs)	0 = Off/1 = On (Watchdog)

Programming
BWU2130, BWU2131
preset address 0 changeable via bus master or programming devices

## ASi-3 8I/8O- / 16I/16O AB Module in sheet-iron casing

### Connections 8I/8O module

D-Sub 25poll	Data bit	Signal name
1	-	-
2	+24V_EXT	+24V_EXT
3	GND_EXT	GND_EXT
4	ASI1.E0	E1
5	ASI1.E1	E2
6	ASI1.E2	E3
7	ASI1.E3	E4
8	ASI2.E0	E5
9	ASI2.E1	E6
10	ASI2.E2	E7
11	ASI2.E3	E8
12	ASI-	ASI-
13	-	-

D-Sub 25poll	Data bit	Signal name
14	ASI1.A0	A1
15	ASI1.A1	A2
16	ASI1.A2	A3
17	ASI1.A3	A4
18	ASI2.A0	A5
19	ASI2.A1	A6
20	ASI2.A2	A7
21	ASI2.A3	A8
22	-	-
23	-	-
24	-	-
25	ASI+	ASI +

### Connections 16I/16O module

D-Sub 37poll	Data bit	Signal name
1	GND	GND
2	+24V	+24V
3	GND	GND
4	ASI1.E0	E1
5	ASI1.E1	E2
6	ASI2.E1	E6
7	ASI1.E3	E4
8	ASI2.E0	E5
9	ASI1.E2	E3
10	+24V	+24V
11	ASI2.E2	E7
12	ASI2.E3	E8
13	+24V	+24V
14	ASI3.E0	E9
15	ASI3.E1	E10
16	ASI3.E2	E11
17	ASI3.E3	E12
18	ASI4.E0	E13
19	ASI4.E1	E14
20	ASI4.E2	E15

D-Sub 37poll	Data bit	Signal name
21	+24V	+24V
22	ASI4.E3	E16
23	+24V	+24V
24	-	-
25	ASI2.A1	A6
26	ASI2.A2	A7
27	ASI2.A3	A8
28	ASI3.A0	A9
29	ASI3.A1	A10
30	ASI3.A2	A11
31	ASI3.A3	A12
32	ASI4.A0	A13
33	ASI4.A1	A14
34	ASI4.A2	A15
35	ASI4.A3	A16
36	ASI2.A0	A5
37	ASI1.A3	A4

