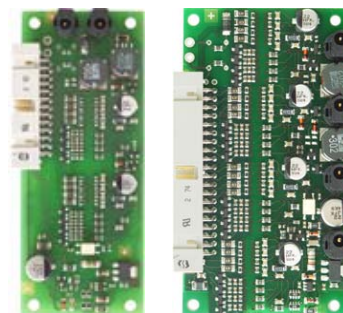


Circuit Board Module ASi 8I/8O 2 4I/4O Single Slaves

Circuit Board Module ASi 16I/16O 4 4I/4O Single Slaves



BW1898

BW1900



Article no. BW1898 Circuit Board Module ASi 8I/8O, 2 4I/4O Single Slaves

Article no. BW1900 Circuit Board Module ASi 16I/16O, 4 4I/4O Single Slaves

The ASi Special Slave is realized by 2 resp. 4 AS-i slaves. The board is completely powered by AS-i.

A watchdog function is integrated. It powers the outputs off, if bus communication is interrupted (master failure).

The inputs/outputs can head for up to 8 resp. 16 LEDs. The energy is supplied by the ASi system.

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

Customer-specific special orders are possible on short notice. The circuit board dimensions and the plug connections can be changed as well.

Article no.	BW1898	BW1900
ASi Specification	ASi 2.1	
Extended addressing	≤ 31 slaves	
Addressing	2 slaves	4 slaves
Connection	wiring pins	
Connection	circuit board installation	
Quiescent current (input = 0, output = 0)	≤ 40 mA	≤ 50 mA
Switching threshold of inputs	≤ 0,3 mA (low) ≥ 2 mA (high)	
U	20 .. 30 V DC	
Outputs	8	16
Inputs	8	16
Loading capacity	70 mA per output (sum of all outputs < 200 mA) 24 V DC, no inductive load, no short circuit	
Length of connector cables	I/O: max. 1,5 m	
Operating voltage	via AS-i	
Operating current	≤ 400 mA	≤ 500 mA
EMC directions	EN 61000-6-2, EN 61000-6-4	
Ambient operating temperature	-25°C .. +70°C	
Passive safety (up to PLe/SIL 3)	yes ¹	
Storage temperature	-40°C .. +70°C	
Protection category EN 60529	IP00	
Coating	coated	
Allowable shock and vibration stress	≤ 15 g, T ≤ 11 ms 10 .. 55 Hz, 0,5 mm amplitude	
Dimensions (L / W / H in mm)	104 / 41 / 16	93 / 51 / 16

Programming (Bit-setting)

Data bit (Input via ASi)

Bit function

D0 input I1/output O1
D1 input I2/output O2
D2 input I3/output O3
D3 input I4/output O4

Parameter bit BW1898, BW1900

Bit function

P0 not used
P1 not used
P2 not used
P3 not used

Parameter bit BW1899, BW1901

Bit function

P0 0 = off/1 = on (watchdog)
P1 0 = on/1 = off (data input filter 128 μs)
P2 0 = on/1 = off (synchronous data I/O mode)
P3 not used

Programming:

Address preset 0
changeable via bus master or programming devices

ASi Spec. 2.1

IO code 7
ID code F
ID1 code (F)
ID2 code E

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.

Connections 8I/8O Module

8E/8A		26 pin	Data bit	Signal name	26 pin	Data bit	Signal name
		1	-	-	14	ASI1.E3	E4
		2	-	-	15	ASI2.A1	A6
		3	ASI+	ASI +	16	ASI1.E2	E3
		4	ASI-	ASI-	17	ASI2.A0	A5
		5	-	-	18	ASI1.E1	E2
		6	ASI2.E3	E8	19	ASI1.A3	A4
		7	-	-	20	ASI1.E0	E1
		8	ASI2.E2	E7	21	ASI1.A2	A3
		9	-	-	22	GND_EXT	GND_EXT
		10	ASI2.E1	E6	23	ASI1.A1	A2
		11	ASI2.A3	A8	24	+24 V_EXT	+24 V_EXT
		12	ASI2.E0	E5	25	ASI1.A0	A1
		13	ASI2.A2	A7	26	-	-

Connections 16I/16O Module

16E/16A		40 pin	Data bit	Signal name	40 pin	Data bit	Signal name
		1	ASI1.A0	A1	21	ASI3.A1	A10
		2	ASI1.A1	A2	22	+24 V	+24 V
		3	ASI1.A2	A3	23	ASI3.A0	A9
		4	ASI4.E1	E14	24	ASI1.E2	E3
		5	ASI1.A3	A4	25	ASI2.A3	A8
		6	ASI4.E0	E13	26	ASI2.E0	E5
		7	ASI2.A0	A5	27	ASI2.A2	A7
		8	ASI3.E3	E12	28	ASI1.E3	E4
		9	ASI4.A3	A16	29	ASI2.A1	A6
		10	ASI3.E2	E11	30	ASI2.E1	E6
		11	ASI4.A2	A15	31	-	-
		12	ASI3.E1	E10	32	ASI1.E1	E2
		13	ASI4.A1	A14	33	+24 V	+24 V
		14	ASI3.E0	E9	34	ASI1.E0	E1
		15	ASI4.A0	A13	35	ASI4.E3	E16
		16	+24 V	+24 V	36	GND	GND
		17	ASI3.A3	A12	37	+24 V	+24 V
		18	ASI2.E3	E8	38	+24 V	+24 V
		19	ASI3.A2	A11	39	ASI4.E2	E15
		20	ASI2.E2	E7	40	GND	GND

