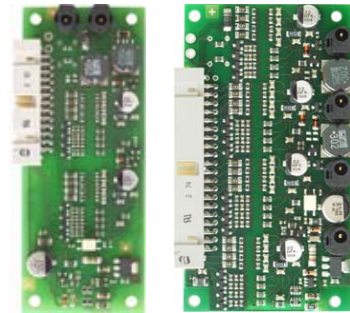


Circuit Board Module AS-i 8I/8O 2 4I/4O Single Slaves

Circuit Board Module AS-i 16I/16O 4 4I/4O Single Slaves



BW1898

BW1900



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

Article no. BW1900 Circuit Board Module AS-i 16I/16O, 4 4I/4O Single Slaves

The AS-i 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 AS-i system.

The addressing of 2 resp. 4 AS-i 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
AS-i Specification	AS-i 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	
Storage temperature	-40°C .. +70°C	
Protection category EN 60529	IP00	
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 AS-i) 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

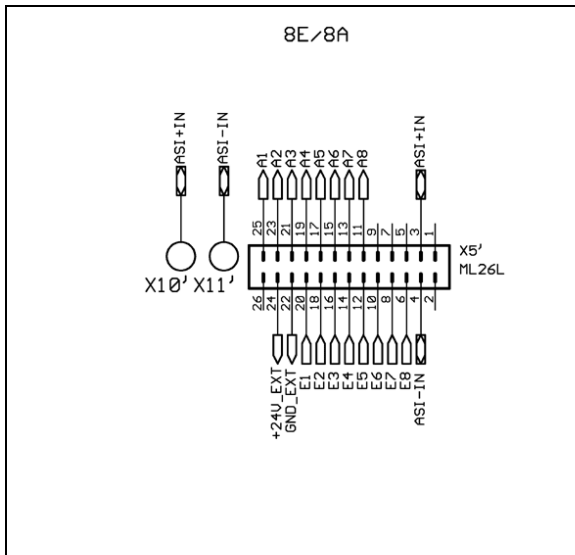
Programming:

Address preset 0
changeable via bus master or programming devices

AS-i Spec. 2.1

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

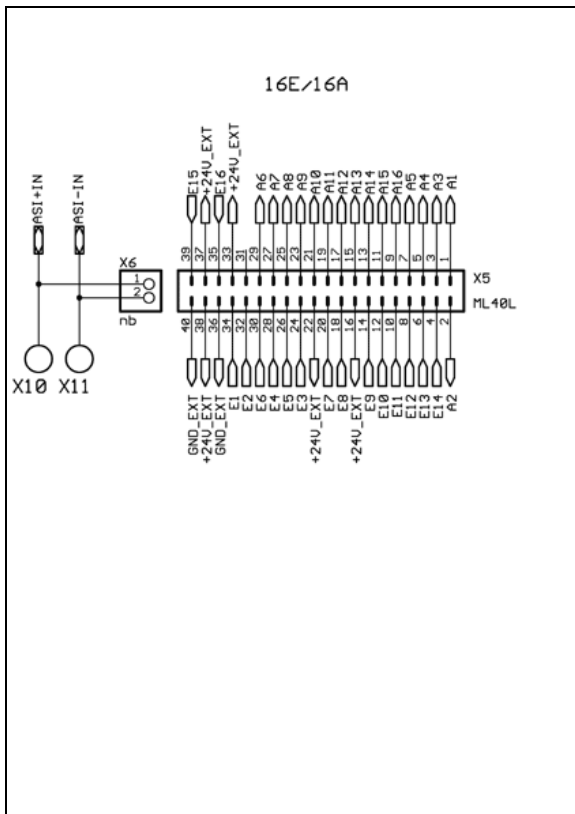
Connections 8I/8O Module



26 pin	Data bit	Signal name
1	-	-
2	-	-
3	ASI+	ASI +
4	ASI-	ASI-
5	-	-
6	ASI2.E3	E8
7	-	-
8	ASI2.E2	E7
9	-	-
10	ASI2.E1	E6
11	ASI2.A3	A8
12	ASI2.E0	E5
13	ASI2.A2	A7

26 pin	Data bit	Signal name
14	ASI1.E3	E4
15	ASI2.A1	A6
16	ASI1.E2	E3
17	ASI2.A0	A5
18	ASI1.E1	E2
19	ASI1.A3	A4
20	ASI1.E0	E1
21	ASI1.A2	A3
22	GND_EXT	GND_EXT
23	ASI1.A1	A2
24	+24 V_EXT	+24 V_EXT
25	ASI1.A0	A1
26	-	-

Connections 16I/16O Module



40 pin	Data bit	Signal name
1	ASI1.A0	A1
2	ASI1.A1	A2
3	ASI1.A2	A3
4	ASI4.E1	E14
5	ASI1.A3	A4
6	ASI4.E0	E13
7	ASI2.A0	A5
8	ASI3.E3	E12
9	ASI4.A3	A16
10	ASI3.E2	E11
11	ASI4.A2	A15
12	ASI3.E1	E10
13	ASI4.A1	A14
14	ASI3.E0	E9
15	ASI4.A0	A13
16	+24 V	+24 V
17	ASI3.A3	A12
18	ASI2.E3	E8
19	ASI3.A2	A11
20	ASI2.E2	E7

40 pin	Data bit	Signal name
21	ASI3.A1	A10
22	+24 V	+24 V
23	ASI3.A0	A9
24	ASI1.E2	E3
25	ASI2.A3	A8
26	ASI2.E0	E5
27	ASI2.A2	A7
28	ASI1.E3	E4
29	ASI2.A1	A6
30	ASI2.E1	E6
31	-	-
32	ASI1.E1	E2
33	+24 V	+24 V
34	ASI1.E0	E1
35	ASI4.E3	E16
36	GND	GND
37	+24 V	+24 V
38	+24 V	+24 V
39	ASI4.E2	E15
40	GND	GND

