PCB AS-i modules, board based solutions

Bihl + Wiedemann

Special variants on request

(Figure similar)

Figure	Circuit board dimensions [1]	Inputs digital	Outputs digital	Inputs analog	Connection [2]	Coated [3]	LED status display [4]	Input voltage (sensor supply) [5]	Output voltage (actuator supply) [6]	AS-i address [7]	Art.no.
	29,7mm x 36,5mm	1	1 x	–	wiring pins	no	no	out of AS-i	out of AS-i	1 AB slave	**BWR1566**
	29,7mm x 36,5mm	2	2 x electronic	–	solder lugs	no	no	out of AS-i	out of AS-i	1 AB slave	**BWR1421**
	29,7mm x 36,5mm	2	2 x electronic	–	screw terminals (AS-i pins only)	no	no	out of AS-i	out of AS-i	1 AB slave	**BWR1957**
	29,7mm x 36,5mm	2	2 x electronic	–	screw terminals	no	no	out of AS-i	out of AS-i	1 AB slave Profile: S-7.A.7.E	**BWR2782**
	29,7mm x 36,5mm	2	2 x electronic	–	screw terminals	no	no	out of AS-i	out of AS-i	1 AB slave	**BWR1443**
	29,7mm x 36,5mm	2 (input mir-rored)	2 x electronic	–	screw terminals	yes	no	out of AS-i	out of AS-i	1 AB slave	**BWR2393**
	73mm x 37,5mm	4	3 x electronic	–	solder lugs	no	no	out of AS-i	out of AS-i	1 AB slave	**BWR1408**
	73mm x 37,5mm	4	3 x electronic	–	solder lugs	no	yes	out of AS-i	out of AUX	1 AB slave	**BWR1682**
	73mm x 37,5mm	4	3 x electronic	–	plug-in spring-type terminals	no	no	out of AS-i	out of AS-i	1 AB slave	**BWR2229**
	73mm x 37,5mm	4	3 x electronic	–	screw terminals	no	no	out of AS-i	out of AS-i	1 AB slave	**BWR1387**
	73mm x 37,5mm	4	3 x electronic	–	wiring pins	no	no	out of AS-i	out of AS-i	1 AB slave	**BWR1386**
	73mm x 37,5mm	4	4 x electronic	–	solder lugs	no	no	out of AS-i	out of AS-i	1 single slave	**BWR2052**
	73mm x 37,5mm	4	4 x electronic	–	solder lugs	no	yes	out of AS-i	out of AS-i	1 single slave	**BWR1468**
	73mm x 37,5mm	4	4 x electronic	–	solder lugs	no	yes	out of AS-i	out of AUX	1 AB slave	**BWR2442**
	73mm x 37,5mm	4	4 x electronic	–	socket board	no	no	out of AS-i	out of AS-i	1 AB slave	**BWR3116**
	73mm x 37,5mm	4	4 x electronic	–	connecting wires, 200 mm	yes, thick coated	yes	out of AS-i	out of AS-i	1 single slave	**BWR2597**
	73mm x 37,5mm	4	4 x electronic	–	connecting wires, 200 mm	yes, thick coated	yes	out of AS-i	out of AS-i	1 AB slave	**BWR2571**
	73mm x 37,5mm	4	4 x electronic	–	wiring pins	no	no	out of AS-i	out of AS-i	1 single slave	**BWR1218**
	73mm x 37,5mm	4	4 x electronic	–	wiring pins	no	yes	out of AS-i	out of AUX	1 single slave	**BWR2591**
	73mm x 37,5mm	4	4 x electronic	–	wiring pins	yes	yes	out of AUX	out of AUX	1 AB slave	**BWR3214**
	73mm x 37,5mm	4	4 x electronic	–	wiring pins	yes, thick coated	yes	out of AUX	out of AUX	1 AB slave	**BWR3213**
	73mm x 37,5mm	4	4 x electronic	–	plug-in spring-type ter-minals	no	no	out of AS-i	out of AS-i	1 AB slave	**BWR1889**

PCB AS-i modules, board based solutions

Figure	Circuit board dimensions (1)	Inputs digital	Outputs digital	Inputs analog	Connection (2)	Coated (3)	LED status display (4)	Input voltage (sensor supply) (5)	Output voltage (actuator supply) (6)	AS-i address (7)	Art.no.
	73mm x 37,5mm	4	4 x electronic	–	screw terminals	no	no	out of AS-i	out of AS-i	1 single slave	**BWR1219**
	73mm x 37,5mm	4	4 x electronic	–	screw terminals	no	no	out of AUX	out of AUX	1 single slave	**BWR1389**
	73mm x 37,5mm	4	4 x electronic	–	screw terminals	no	yes	out of AS-i	out of AS-i	1 single slave	**BWR1470**
	73mm x 37,5mm	4	4 x electronic	–	screw terminals	no	yes	out of AS-i	out of AUX	1 single slave	**BWR1628**
	73mm x 37,5mm	4	4 x electronic	–	screw terminals	yes	yes	out of AS-i	out of AS-i	1 single slave	**BWR1789**
	73mm x 37,5mm	4	4 x electronic	–	screw terminals	yes, thick coated	yes	out of AUX	out of AUX	1 AB slave	**BWR2803**
	73mm x 37,5mm	4	–	–	connecting wires, 500 mm	yes, thick coated	yes	out of AS-i	–	1 AB slave	**BWR2842**
	73mm x 37,5mm	8	–	–	connecting wires, 200 mm	yes, thick coated	no	out of AS-i	–	2 AB slaves	**BWR2774**
	73mm x 37,5mm	8	–	–	wiring pins	no	no	out of AS-i	–	2 AB slaves	**BWR1351**
	73mm x 37,5mm	8	–	–	screw terminals	no	no	out of AS-i	–	2 AB slaves	**BWR1352**
	73mm x 37,5mm	–	6 x electronic	–	screw terminals	no	no	–	out of AS-i	2 AB slaves	**BWR1627**
	73mm x 37,5mm	–	–	2 x 0 … 10V	wiring pins	no	yes	out of AS-i	out of AS-i	1 single slave	**BWR2035**

(1) **Circuit board dimensions**: 2 holes for assembly angles.

(2) **Connection**: further connection options are available on request.

screw terminals nominal cross section 0,5 mm^2	**wiring pins** contact spacing 2,54 mm	**solder lugs** contact spacing 2,54mm	**socket board** nominal cross section 0,65 mm^2	**plug-in spring type terminals** nominal cross section 0,5 mm^2	**connecting wires** nominal cross section 0,34 mm Length 100 / 200 mm (other lengths available on request)

(3) **Coating**: coating protects components and circuit boards when touched.

coated	**thick coated**

(4) **LED status display**: status of in- and outputs is indicated by LEDs. In addition to that, both AS-i LEDs (PWR green and FAULT red) show - as usual regarding the AS-i slaves - the status of the AS-i slaves. Uaux is indicated by a green LED.

(5) **Input voltage (sensor supply):** inputs are supplied by AS-i or by AUX (auxiliary 24 V power). If supplied by AS-i, inputs shall not be connected to earth or to external potential.

(6) **Output voltage (actuator supply)**: outputs are supplied by AS-i or by AUX (auxiliary 24 V power). If supplied by AS-i, outputs shall not be connected to earth or to external potential.

(7) **AS-i address**: AB Slave (max. 62 AB Slaves/AS-i network), 2 AB slaves (max. 31 modules with 2 AB slaves), Single Slaves (max. 31 Single Slaves/AS-i network), mixed use allowed.
For modules with two slaves the second slave is turned off as long as the first slave is addressed to address "0".
Upon request, slaves are available with specific AS-i Slave profiles.

For technical data on further devices, see the next pages!

Article no.	BWR1566	BWR2782	BWR1443	BWR2393	BWR1957	BWR1421
Connection						
AS-i / peripheral connection	wiring pins	screw terminals			screw terminals only to AS-i pins	solder lugs
Length of connector cable	I/O: max. 1,5 m (1)					
AS-i						
Profile	S-B.A.E, ID1=7 (default)	S-7.A.7, ID1=E (default)	S-B.A.E, ID1=7 (default)			
Address	1 AB slave					
Required Master profile	≥M3					
Since AS-i specification	2.1					
Operating voltage	30 V (18 ... 31,6 V)					
Max. current consumption	120 mA	130 mA				
Inputs digital						
Number	1	2				
Power supply	out of AS-i					
Power supply of attached sensors	max. 80 mA, ∑ (sensors, outputs) ≤80 mA					
Input level	U_{in} <2 V low, U_{in} >10 V high					
Outputs digital						
Number	1	2				
Power supply	out of AS-i					
Max. current consumption	80 mA per output, ∑ (sensors, outputs) ≤80 mA					
Display						
LED indicators	no					
UL Recognized Component						
In general	ЯU mark does not provide UL certification for any functional safety rating or aspects of the above devices					
External protection	The input to the devices need to be provided with a fuse rated 4 A max or else the devices need to be powered from a class 2 or a SELV limited power source.					
Environment						
Applied standards	EN 61 000-6-2 EN 61 000-6-3 EN 60529					
Operating altitude	max. 2000 m					
Ambient temperature	-25 °C … +70 °C					
Storage temperature	-40 °C … +85 °C					
Protection class	IP00					
Coating	no				yes	no
Allowed shock and vibration stress	≤15*g*, T≤11 ms, 10 ... 55 Hz, 0,5 mm amplitude					
Weight	15 g					
Dimensions (W / H / D in mm)	29,7 / 36,5 / 10					

(1) loop resistance: ≤150 Ω

Article no.	BWR1889	BWR2229	BWR1387	BWR1386	BWR1408	BWR1682
Connection						
AS-i / AUX / peripheral connection	plug-in spring-type terminals		screw terminals	wiring pins	solder lugs	
Length of connector cable	I/O: max. 1,5 m (1)					
AS-i						
Profile	S -7.A.7, ID1=7 (fixed)	S-7.A.E, ID1=7 (default)				
Address	1 AB slave					
Required Master profile	≥M4	≥M3				
Since AS-i specification	3.0	2.1				
Operating voltage	30 V (18 ... 31,6 V)					
Max. current consumption	230 mA	220 mA				230 mA
AUX						
Voltage	–					24 V (18 … 30 V)
Max. current consumption	–					2,1 A
Inputs digital						
Number	4					
Power supply	out of AS-i					
Power supply of attached sensors	max. 180 mA, ∑ (sensors, outputs) ≤180 mA					max. 180 mA
Input level	U_{in} <2 V low, U_{in} >10 V high					
Outputs digital						
Number	4	3				
Power supply	out of AS-i					out of AUX
Max. current consumption	100 mA per output, ∑ (sensors, outputs) ≤180mA					250 mA per output, ∑ ≤500 mA
Display						
LED indicators	no					yes
UL Recognized Component						
In general	ЯU mark does not provide UL certification for any functional safety rating or aspects of the above devices					
External protection	The input to the devices need to be provided with a fuse rated 4 A max or else the devices need to be powered from a class 2 or a SELV limited power source.					
Environment						
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 60529					
Operating altitude	max. 2000 m					
Ambient temperature	-25 °C … +70 °C					
Storage temperature	-40 °C … +85 °C					
Protection class	IP00					
Coating	no					
Allowed shock and vibration stress	≤15*g*, T≤11 ms, 10 ... 55 Hz, 0,5 mm amplitude					
Weight	27 g					
Dimensions (W / H / D in mm)	73 / 37,5 / 12		73 / 37,5 / 7	73 / 37,5 / 10	73 / 37,5 / 7	73 / 37,5 / 10

(1) loop resistance: ≤150 Ω

Article no.	BWR1219	BWR1389	BWR1470	BWR1789	BWR1628	BWR2803	BWR3213	BWR3214
Connection								
AS-i / AUX / peripheral connection	screw terminals						wiring pins	
Length of connector cable	I/O: max. 1,5 m (1)							
AS-i								
Profile	S-7.0.F, ID1=F (default)					S -7.A.7, ID1=7 (fixed)		
Address	1 single slave					1 AB slave		
Required Master profile	≥M0					≥M4		
Since AS-i specification	2.0					3.0		
Operating voltage	30 V (18 ... 31,6 V)							
Max. current consumption	300 mA	40 mA	310 mA		60 mA			
AUX								
Voltage	–	24 V (18 … 30 V)	–		24 V (18 … 30 V)			
Max. current consumption	–	200 mA	–		2,1 A			
Inputs digital								
Number	4							
Power supply	out of AS-i	out of AUX	out of AS-i			out of AUX		
Power supply of attached sensors	max. 260 mA, ∑ (sensors, outputs) ≤260 mA	max. 180 mA, ∑ (sensors, outputs) ≤180 mA	max. 260 mA, ∑ (sensors, outputs) ≤260 mA		no power supply	directly out of AUX		
Input level	U_{in} < 2 V low, U_{in} >10 V high							
Outputs digital								
Number	4							
Power supply	out of AS-i	out of AUX	out of AS-i		out of AUX			
Max. current consumption	100 mA per output, ∑ (sensors, outputs) ≤260 mA	100 mA per output, ∑ (sensors, outputs) ≤180 mA	100 mA per output, ∑ (sensors, outputs) ≤260 mA		250 mA per output, ∑ ≤500 mA			
Display								
LED indicators	no		yes					
UL Recognized Component								
In general	ЯU mark does not provide UL certification for any functional safety rating or aspects of the above devices							
External protection	The input to the devices need to be provided with a fuse rated 4 A max or else the devices need to be powered from a class 2 or a SELV limited power source.							
Environment								
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 60529							
Operating altitude	max. 2000 m							
Ambient temperature	-25 °C … +70 °C							
Storage temperature	-40 °C … +85 °C							
Protection class	IP00							
Coating	no			yes	no	yes, thick coated		yes
Allowed shock and vibration stress	≤15*g*, T≤11 ms, 10 ... 55 Hz, 0,5 mm amplitude							
Weight	27 g							
Dimensions (W / H / D in mm)	73 / 37,5 / 10		73 / 37,5 / 13		73 / 37,5 / 10			

(1) loop resistance: ≤150 Ω

Article no.	BWR2597	BWR2571	BWR1218	BWR2591	BWR1468	BWR2052	BWR2442	BWR3116
Connection								
AS-i / AUX / peripheral connection	connecting wires, 200 mm		wiring pins		solder lugs			socket board
Length of connector cable	I/O: max. 1,5 m (1)							
AS-i								
Profile	S-7.0.F, ID1=F (default)	S -7.A.7, ID1=7 (fix)	S-7.0.F, ID1=F (default)	S-7.0.E, ID1=F (default)	S-7.0.F, ID1=F (default)		S -7.A.7, ID1=7 (fix)	
Address	1 Single Slave	1 AB slave	1 single slave				1 AB slave	
Required Master profile	≥M0	≥M4	≥M0				≥M4	
Since AS-i specification	2.0	3.0	2.0				3.0	
Operating voltage	18 ... 31,6 V							
Max. current consumption	310 mA	230 mA	300 mA	310 mA		300 mA	230 mA	
AUX								
Voltage	—			24 V (18 … 30 V)	–		24 V (18 … 30 V)	—
Max. current consumption	—			2,1 A	–		2,1 A	—
Inputs digital								
Number	4							
Power supply	out of AS-i							
Power supply of attached sensors	max. 260 mA, ∑ (sensors, outputs) ≤260 mA	max. 180 mA, ∑ (sensors, outputs) ≤180 mA	max. 260 mA, ∑ (sensors, outputs) ≤260 mA	max. 260 mA	max. 260 mA, ∑ (sensors, outputs) ≤260 mA		max. 180 mA	max. 180 mA, ∑ (sensors, outputs) ≤180 mA
Input level	U_{in} <2 V low, U_{in} >10 V high							
Outputs digital								
Number	4							
Power supply	out of AS-i			out of AUX	out of AS-i		out of AUX	out of AS-i
Max. current consumption	100 mA per output, ∑ (sensors, outputs) ≤260 mA	100 mA per output, ∑ (sensors, outputs) ≤180 mA	100 mA per output, ∑ (sensors, outputs) ≤260 mA	250 mA per output, ∑ ≤500 mA	100 mA per output, ∑ (sensors, outputs) ≤260 mA		250 mA per output ∑ ≤500 mA	100 mA per output, ∑ (sensors, outputs) ≤180 mA
Display								
LED indicators	yes		no	yes		no	yes	no
UL Recognized Component								
In general	ЯU mark does not provide UL certification for any functional safety rating or aspects of the above devices							
External protection	The input to the devices need to be provided with a fuse rated 4 A max or else the devices need to be powered from a class 2 or a SELV limited power source.							

Article no.	BWR2597	BWR2571	BWR1218	BWR2591	BWR1468	BWR2052	BWR2442	BWR3116
Environment								
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 60529							
Operating altitude	max. 2000 m							
Ambient temperature	-25 °C … +70 °C							
Storage temperature	-40 °C … +85 °C							
Protection class	IP54		IP00					
Coating	yes, thick coated		no					
Allowed shock and vibration stress	≤15*g*, T≤11 ms, 10 ... 55 Hz, 0,5 mm amplitude							
Weight	27 g							
Dimensions (W / H / D in mm)	73 / 37,5 / 13		73 / 37,5 / 7	73 / 37,5 / 10	73 / 37,5 / 13		73 / 37,5 / 10	73 / 37,5 / 7

(1) loop resistance: ≤150 Ω

Article no.	BWR2842	BWR2774	BWR1352	BWR1351	BWR1627	BWR2035
Connection						
AS-i / AUX / peripheral connection	connecting wires, 500 mm	connecting wires, 200 mm	screw terminals	wiring pins	screw terminals	wiring pins
Length of connector cable	I/O: max. 1,5 m (1)					
AS-i						
Profile	S -7.A.7, ID1=7 (fixed)	2 x S-0.A.2, ID1=7 (default)			2 x S-8.A.0, D1=7 (default)	S-7.3.D, ID1=F (default)
Address	1 AB slave	2 AB slaves				1 single slave
Required Master profile	≥M4	≥M3				
Since AS-i specification	3.0	2.1				
Operating voltage	30 V (18 ... 31,6 V)					
Max. current consumption	230 mA					120 mA
Inputs digital						
Number	4	8			–	
Power supply	out of AS-i				–	
Power supply of attached sensors	max. 180 mA				–	max. 75 mA
Input level	U_{in} <2 V low, U_{in} >10 V high					
Outputs digital						
Number	–				6	–
Power supply	–				out of AS-i	–
Max. current consumption	–				100 mA per output, ∑ ≤180 mA	–

Article no.	BWR2842	BWR2774	BWR1352	BWR1351	BWR1627	BWR2035
Inputs analogue						
Number	–					2
Power supply	–					out of AS-i
Resolution	–					normal: 14 Bit; fast: 11 Bit
Range of value	–					0 ... 10000 dec 0 ... 27648 dec (2)
Transformation speed	–					normal: 33 ms/14 Bit; fast: 4,2 ms/11 Bit
Input level	–					0 ... 10 V
Internal resistance	–					100 kΩ
Display						
LED indicators	yes	no				
UL Recognized Component						
In general	ЯU mark does not provide UL certification for any functional safety rating or aspects of the above devices					
External protection	The input to the devices need to be provided with a fuse rated 4 A max or else the devices need to be powered from a class 2 or a SELV limited power source.					
Environment						
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 60529					
Operating altitude	max. 2000 m					
Ambient temperature	-25 °C … +70 °C					
Storage temperature	-40 °C … +85 °C					
Protection class	IP54		IP00			
Coating	yes, thick coated		no			
Allowed shock and vibration stress	≤15*g*, T≤11 ms, 10 ... 55 Hz, 0,5 mm amplitude					
Weight	27 g					
Dimensions (W / H / D in mm)	73 / 37,5 / 13	73 / 37,5 / 10		73 / 37,5 / 7	73 / 37,5 / 10	

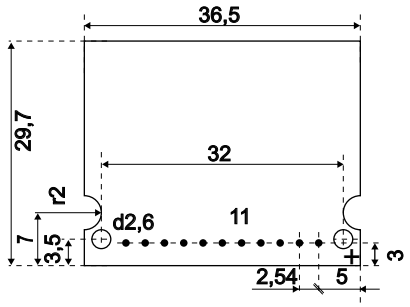
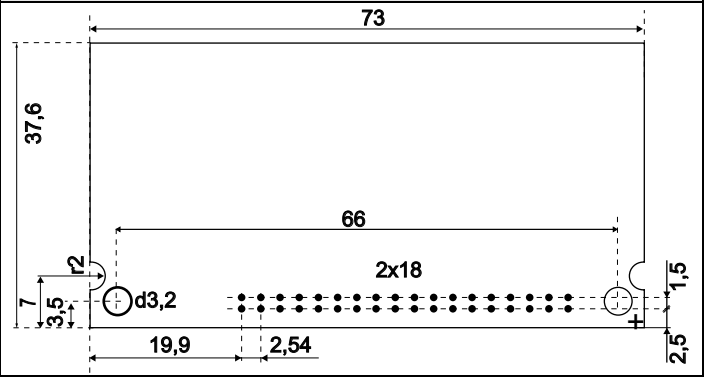
(1) loop resistance: ≤150 Ω

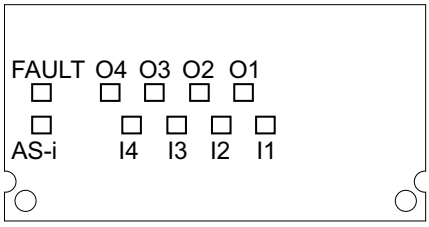
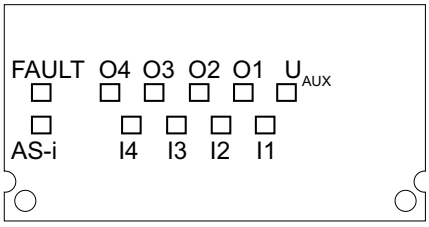
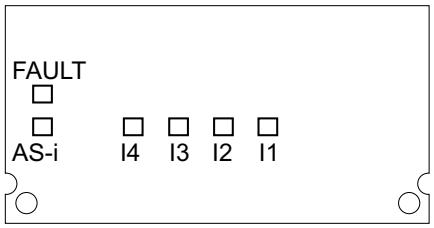
(2) Siemens scale

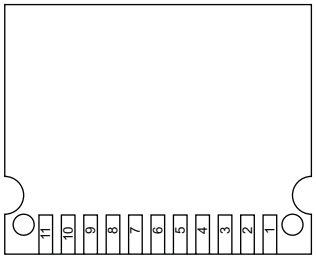
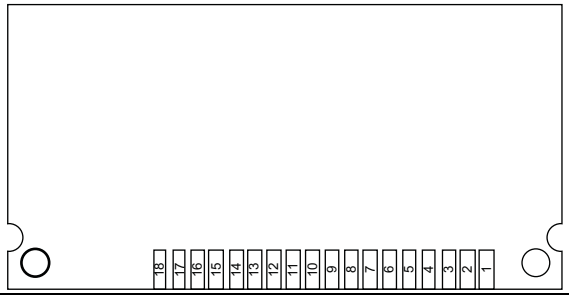
Programming	Bit Setting Digital IO							
	Slave 1				Slave 2			
	D0	D1	D2	D3	D0	D1	D2	D3
	Input							
BWR1421, BWR1443, BWR2782	—		I1	I2	—			
BWR1218, BWR1219, BWR1387, BWR1386, BWR1389, BWR1408, BWR1468, BWR1470, BWR1628, BWR1682, BWR1789, BWR1889, BWR2052, BWR2229, BWR2442, BWR2571, BWR2591, BWR2597, BWR2803, BWR2842, BWR3116, BWR3213, BWR3214	I1	I2	I3	I4	—			
BWR1351, BWR1352, BWR2774	I1	I2	I3	I4	I5	I6	I7	I8
BWR1627	—							
BWR2393	I1	I2	I1	I2	—			
	Output							
BWR1421, BWR1443, BWR2782	O1	O2	—					
BWR1218, BWR1219, BWR1386, BWR1387, BWR1389, BWR1408, BWR1468, BWR1470, BWR1628, BWR1682, BWR1789, BWR1889, BWR2052, BWR2229, BWR2442, BWR2571, BWR2591, BWR2597, BWR2803, BWR3116, BWR3213, BWR3214	O1	O2	O3	O4	—			
BWR1351, BWR1352, BWR2774	—							
BWR1627	O1	O2	O3	—	O4	O5	O6	—
BWR2393	O1	O2	—					
	Parameter bit							
	P0		P1		P2		P3	
BWR1421, BWR1443, BWR2782	not used							
BWR1218, BWR1219, BWR1386, BWR1387, BWR1389, BWR1408, BWR1468, BWR1470, BWR1628, BWR1682, BWR1789, BWR1889, BWR2052, BWR2229, BWR2442, BWR2571, BWR2591, BWR2597, BWR2803, BWR3213, BWR3214	not used							
BWR1351, BWR1352, BWR2774, BWR2842	not used							
BWR1627	not used							
BWR2035	1: peripheral fault is indicated 0: peripheral fault is not indicated		1: 0 ... 10000 dec. 0: 0 ... 27648 dec. (Siemens format)		1: regular 0: fast		1: channel 2 on 0: channel 2 off	
BWR3116	1=off / 0=on (Watchdog)		1=on / 0=off (data input filter)		1=on / 0=off (synchronous I/O mode)		not used	

Programming	
BWR1218, BWR1219, BWR1386, BWR1387, BWR1389, BWR1408, BWR1421, BWR1443, BWR1470, BWR1628, BWR1789, BWR1889, BWR2035, BWR2229, BWR2393, BWR2571, BWR2597, BWR2782, BWR2803, BWR2842, BWR3116, BWR3213, BWR3214	Address preset 0 changeable via bus master or programming devices
BWR1351, BWR1352, BWR2774	Address preset 0 + 0 changeable only via AS-i Master in configuration mode.
BWR1627	Address preset 0 + 1 changeable only via AS-i Master in configuration mode.
Position of DIP switch	
BWR1351, BWR1352, BWR1627, BWR2774	ON: 2. AS-i slave is deactivated OFF: 2. AS-i slave activated

Connections:	
AS-i +, AS-i -	Connection to the AS-i bus
E1 - E4 (I1 - I4)	Inputs
A1 - A4 (O1 - O4)	Outputs
0 V	Reference potential for outputs
+ or +24V	Output for 24 V power supply for the inputs
+24 V_in	Input for 24 V power supply
+24 V_12, +24_34	Output for 24 V power supply for inputs 1+2 and/or 3+4
Sig1+, Sig2+	Positive terminal of analog inputs 1+2
Sig1-, Sig2-	Negative terminal of analog inputs 1+2
n.c.	not connected

Dimensional drawings	
BWR1421, BWR1443, BWR1566, BWR1957, BWR2393, BWR2782	**BWR1218, BWR1219, BWR1351, BWR1352, BWR1386, BWR1387, BWR1389, BWR1408, BWR1468, BWR1470, BWR1627, BWR1628, BWR1682, BWR1789, BWR1889, BWR2035, BWR2052, BWR2229, BWR2442, BWR2571, BWR2591, BWR2597, BWR2774, BWR2803, BWR2842, BWR3116, BWR3213, BWR3214**
	

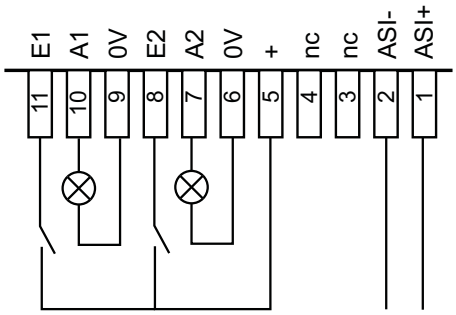
LED assignment	
BWR1468, BWR1470, BWR1789, BWR2571, BWR2597	**BWR1628, BWR1682, BWR2442, BWR2591, BWR2803, BWR3213, BWR3214**
	
BWR2842	
	

Connection assignment	
BWR1421, BWR1443, BWR1566, BWR1957, BW2392, BWR2782	**BWR1218, BWR1219, BWR1351, BWR1352, BWR1386, BWR1387, BWR1389, BWR1408, BWR1468, BWR1470, BWR1627, BWR1628, BWR1682, BWR1789, BWR1889, BWR2035, BWR2052, BWR2229, BWR2442, BWR2571, BWR2591, BWR2597, BWR2774, BWR2803, BWR2842, BWR3116, BWR3213, BWR3214**
	

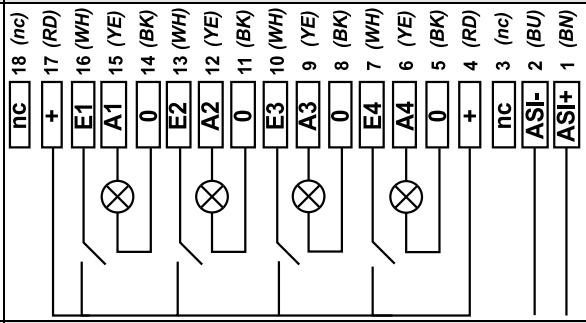
Notice
You shall not connect wiring with connections marked **n.c. (not connected)**.

Terminal diagram

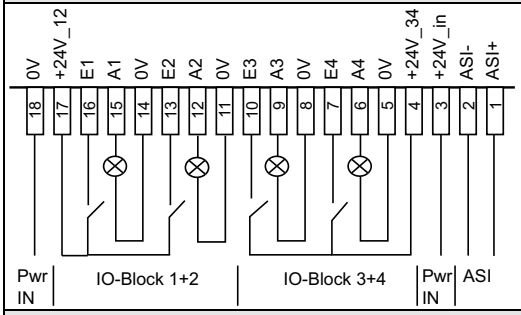
BWR1421, BWR1443, BWR2782



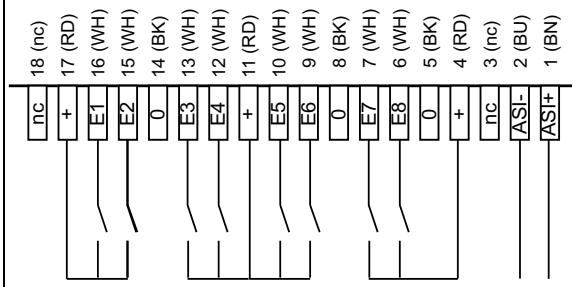
BWR1218, BWR1219, BWR1386, BWR1387, BWR1408, BWR1468, BWR1470, BWR1789, BWR1889, BWR2052, BWR2229, BWR2571, BWR2597, BWR3116



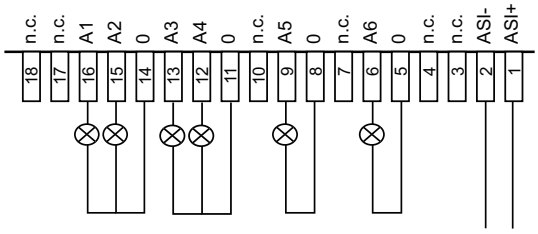
BWR1389



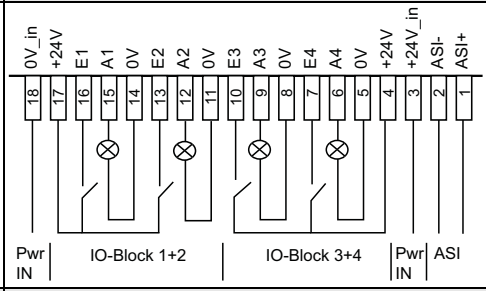
BWR1351, BWR1352, BWR2774



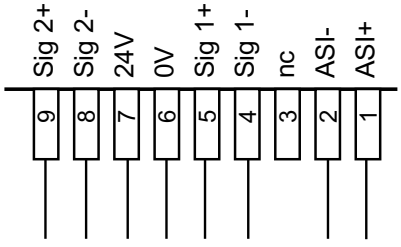
BWR1627



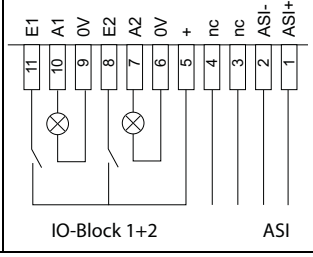
BWR1628



BWR2035

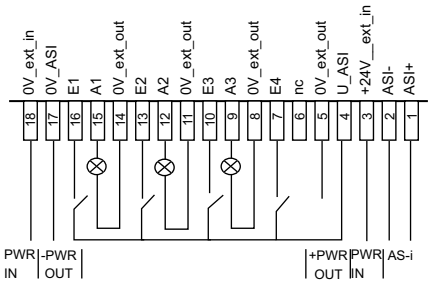


BWR2393

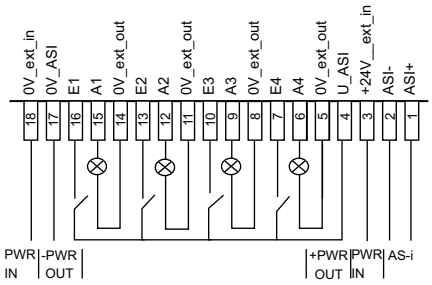


Terminal diagram

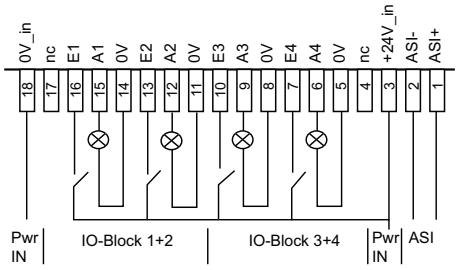
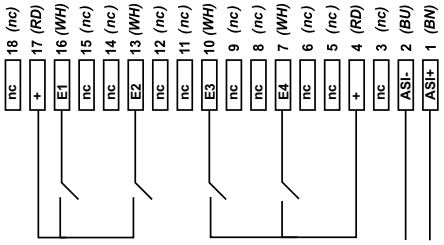
BWR1682



BWR2442, BWR2591



BWR2803, BWR3213, BWR3214



BWR2842