

PCB ASi modules, analogue board based solutions

Special variants on request



(Figure similar)



Figure	Circuit board dimensions ⁽¹⁾	Inputs digital	Outputs digital	Inputs analog	Connec-tion ⁽²⁾	Coating ⁽³⁾	LED sta-tus display ⁽⁴⁾	Input voltage (sensor supply) ⁽⁵⁾	Output voltage (actuator supply) ⁽⁶⁾	ASi address ⁽⁷⁾	Art.no.
	73mm x 37,5mm	–	–	2 x 4 ... 20 mA	screw terminals	no	yes	out of ASi	–	1 single slave	BWR3192
	73mm x 37,5mm	–	–	2 x 0 ... 10V	wiring pins, angled	no	yes	out of ASi	–	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, angled contact spacing 2,54 mm	wiring pins, straight 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 ASi LEDs (PWR green and FAULT red) show - as usual regarding the ASi slaves - the status of the ASi slaves. Uaux is indicated by a green LED.

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

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

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(7) **ASi address:** AB slave (max. 62 AB Slaves/ASi network), 2 AB slaves (max. 31 modules with 2 AB slaves), single Slaves (max. 31 single Slaves/ASi 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 ASi slave profiles.

Article no.	BWR2035	BWR3192
Connection		
ASi / peripheral connection	wiring pins, angled	screw terminals
Length of connector cable	I/O: max. 1,5 m ⁽¹⁾	
ASi		
Profile	S-7.3.D, ID1=F (default)	
Address	1 single slave	
Required Master profile	≥M3	
Since ASi specification	2.1	
Operating voltage	30 V (18 ... 31,6 V)	
Max. current consumption	120 mA	
Max. current consumption without sensor/actuator supply	45 mA	
AUX		
Voltage	-	
Max. current consumption	-	
Inputs analogue		
Number	2	
Power supply	out of ASi	
Resolution	normal: 14 Bit; fast: 11 Bit	
Range of value	0 ... 10000 dec 0 ... 27648 dec ⁽²⁾	4000 ... 20000 dec 0 ... 27648 dec ⁽²⁾
Transformation speed	normal: 33 ms/14 Bit; fast: 4,2 ms/11 Bit	
Input level	0 ... 10 V	4 ... 20 mA
Internal resistance	100 kΩ	82 Ω
Power supply of attached sensors	max. 75 mA	
Input level	U _{in} <2 V low, U _{in} >10 V high	
Display		
LED indicators	yes	
UL Recognized Component		
In general	UL 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	-25 °C ... +85 °C	
Protection class	IP00	
Coating	no	
Allowed shock and vibration stress	≤15g, T≤11 ms, 10 ... 55 Hz, 0,5 mm amplitude	
Weight	27 g	
Dimensions (W / H / D in mm)	73 / 37,5 / 10	

(1) loop resistance: ≤150 Ω

(2) Siemens scale

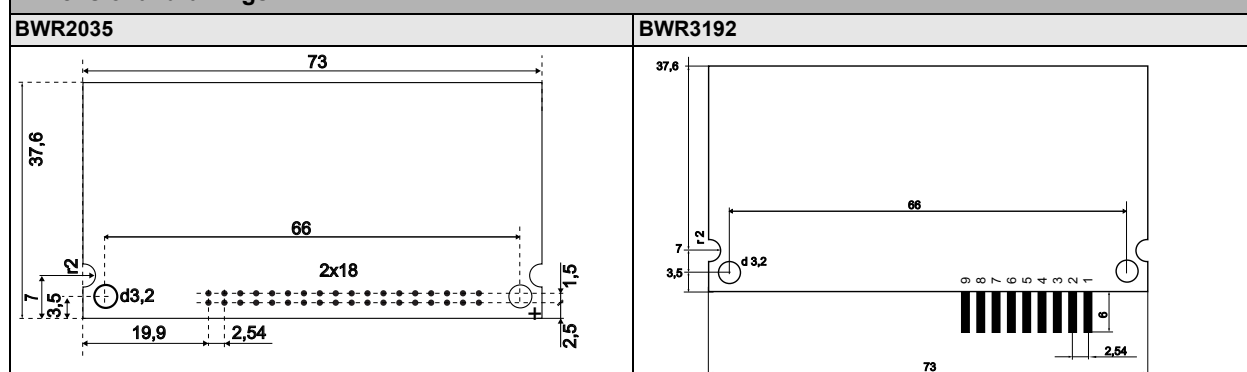
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Programming	Parameter bit			
	P0	P1	P2	P3
BWR2035	1: peripheral fault is indicated 0: peripheral fault is not indicated	1: 0 ... 10000 dec. 0: 0 ... 27648 dec. (Siemens format)	1: regular 0: fast	1: channel 2 on 0: channel 2 off
BWR3192		1: 4000 ... 20000 dec. 0: 0 ... 27648 dec. (Siemens format)		

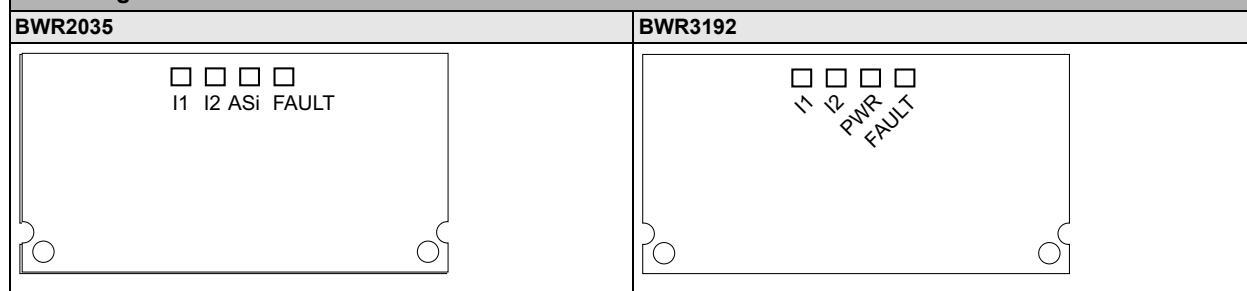
Programming	
BWR2035 / BWR3192	Address preset 0, changeable via bus master or programming devices

Connections:	
ASi +, ASi -	Connection to the ASi bus
Sig1+, Sig2+	Positive terminal of analog inputs 1+2
Sig1-, Sig2-	Negative terminal of analog inputs 1+2
n.c.	not connected
0 V, 24 V	Sensor supply

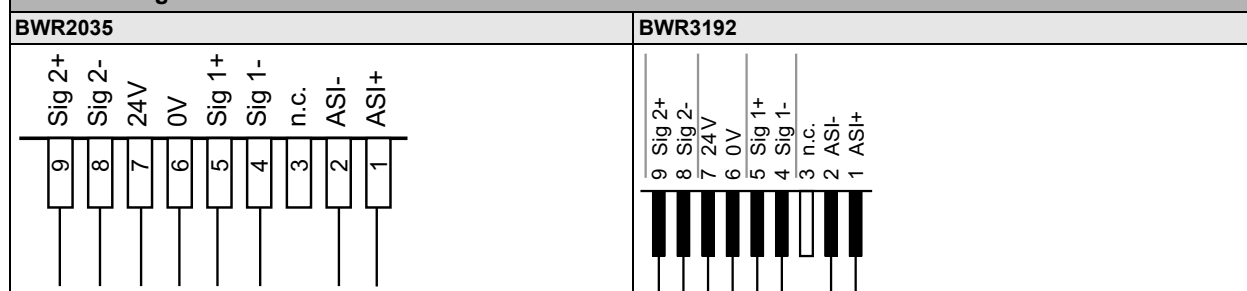
Dimensional drawings



LED assignment



Terminal diagram



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