

ASi Circuit Board Module



(figure similar)

Figure	Type	Inputs digital, EDM ⁽¹⁾	Outputs digital	Connection ⁽²⁾	Coating ⁽³⁾	ASi address ⁽⁴⁾	Article no
	circuit board 43mm x 30mm	2	2 x electronic	connecting wires, 100 mm	thick coated	1 AB Slave	BWR2574
	circuit board 43mm x 30mm	2	2 x electronic	connecting wires, 200 mm	thick coated	1 AB Slave	BWR3068
	circuit board 43mm x 30mm	2	2 x electronic	connecting wires, 100 mm + contact pins	thick coated	1 AB Slave	BWR2522

(1) **Inputs digital, EDM**

An externally connected relay (contactor) can be connected via a feedback loop to the Safety Monitor for monitoring purposes.

(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.

thin coated	thick coated

(4) **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/per ASi network), mixed use allowed (**upon request, slaves are available with specific ASi Slave profiles**).

Circuit Board Modules ASi, PCB Solutions standard

Article no.	BWR2522	BWR2574	BWR3068
Connection			
Connection	connecting wires, 100 mm + contact pins	connecting wires, 100 mm	connecting wires, 200 mm
Length of connector cable	I/O: max. 15 m ⁽²⁾		
ASi			
Profile, S-IO.ID.ID2	S-7.A.E		
Address	1 AB slave		
Required Master profile	≥ M3		
Since ASi specification	2.1		
Voltage	22 ... 31,6 V		
Max. current consumption	< 120 mA		
Input			
Number	2 x standard		
Power supply	out of ASi		
Switching threshold	U _{in} < 2 V low, U _{in} > 10 V high		
Max. loop resistance (switch)	100 Ω		
Output			
Number	2 x electronic		
Power supply	out of ASi		
Max. output current	20 mA per output, Σ (outputs) ≤ 40 mA		
Display			
LED FLT (red)	ASi communication error		
LED ASi (green)	ASi voltage		
LED In1, In2 (yellow) ⁽¹⁾	state of inputs		
LED Out1, Out 2 (yellow)	state of outputs		
UL Recognized Component			
In general	⚠️ 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 4A max or else the devices need to be powered from a class 2 or a SELV limited power source.		
Environment			
Applied standards	EN 60529 EN 61000-6-2 EN 61000-6-4		
Ambient temperature	0 °C ... +70 °C no condensation permitted		
Storage temperature	-25 °C ... +85 °C		
Protection category	IP00 (thick coated)		
Coated	yes, thick coated		
Allowable shock and vibration stress	≤15g, T ≤11 ms 10 ... 55 Hz, 0,5 mm amplitude		
Weight	27 g		
Dimensions (W / H / D in mm)	43 / 10 / 30		

⁽¹⁾ **BWR2522, BWR2574, BWR3068:**

For proper functionality of the LED display, the slave has to be in data exchange with the ASi master.

⁽²⁾ loop resistance: ≤ 100Ω

Circuit Board Modules ASi, PCB Solutions standard

Programming:	ASi Bit-setting			
	D0	D1	D2	D3
	Standard input			
BWR2522, BWR2574, BWR3068	I1	I2	I2	I1
	Output			
BWR2522, BWR2574, BWR3068	O1	O2	-	
	Parameter bit			
	P0	P1	P2	P3
BWR2522, BWR2574, BWR3068	not used			

Signal	BWR2522	BWR2574 / BWR3068
ASi +	BN	BN
ASi -	BU	BU
O1	WH	WH
O2	GR	GR
0V	Pin, BK	BK
I1	RD	RD
I2	YE	YE
I1+	Pin	RD
I2+	Pin	YE

LED assignment
BWR2522 / BWR2574 / BWR3068
