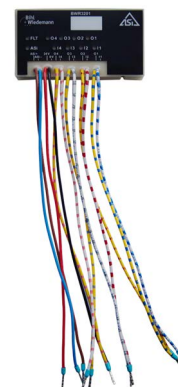


Special variants on request



(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⁾	ASi address ⁽⁷⁾	Art.no.
	74 mm x 39 mm	4	4 x electronic	—	connecting wires, 200 mm	potted	yes	out of ASi	out of ASi	1 AB address	BWR3201

(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 nodes - the status of the ASi nodes. 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.

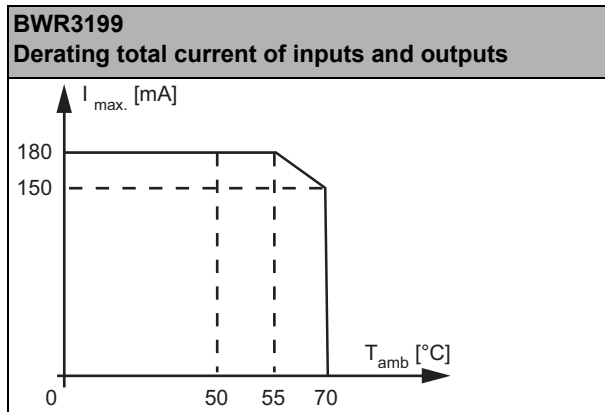
(7) **ASi address:** AB address (max. 62 AB addresses/ASi network), 2 AB addresses (max. 31 modules with 2 AB addresses), single addresses (max. 31 single addresses/ASi network), mixed use allowed. For modules with two ASi nodes the second ASi node is turned off as long as the first ASi node is addressed to address "0". Upon request, ASi nodes are available with specific ASi address profiles.

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

Article no.		BWR3201
Connection		
ASi / peripheral connection		connecting wires, 200 mm
Length of connector cable		I/O: max. 1,5 m ⁽¹⁾
ASi		
Profile		S-7.A.7, ID1=7 (fixed)
Address		1 AB address
Required Master profile		≥M4
Since ASi specification		3
Operating voltage		18 ... 31,6 V
Max. current consumption		230 mA
Max. current consumption without sensor/actuator supply		50 mA
Inputs digital		
Number		4
Power supply		out of ASi
Power supply of attached sensors	up to 50 °C	max. 180 mA, Σ (In/Out) ≤180 mA ⁽²⁾
	at 55 °C	
	at 70 °C	max. 150 mA, Σ (In/Out) ≤150 mA ⁽²⁾
Input level		U _{in} <2 V low, U _{in} >10 V high
Outputs digital		
Number		4
Power supply		out of ASi
Max. current consumption	up to 50 °C	100 mA per output, Σ (In/Out) ≤180 mA ⁽²⁾
	at 55 °C	
	at 70 °C	100 mA per output, Σ (In/Out) ≤150 mA ⁽²⁾
Display		
LED indicators		yes
UL Recognized component		
In general		RU 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 (potted)
Tolerable loading referring to humidity		according to EN 61131-2
Coating		yes, potted
Allowed shock and vibration stress		≤15g, T≤11 ms, 10 ... 55 Hz, 0,5 mm amplitude
Weight		76 g
Dimensions (W / H / D in mm)		74 / 39 / 13

⁽¹⁾ loop resistance: ≤150 Ω

(2)



Programming	Bit Setting Digital IO			
	ASi node 1			
	D3	D2	D1	D0
	input			
BWR3201	I4	I3	I2	I1
	output			
BWR3201	O4	O3	O2	O1

Programming	Parameter bit			
	P3	P2	P1	P0
BWR3201	not used	0=on / 1=off (synchronous I/O mode)	0=on / 1=off (data input filter)	0=off / 1=on (Watchdog)

Programming	
BWR3201	Address preset 0 changeable via bus master or programming devices

Connections:	
ASi +, ASi -	Connection to the ASi bus
Ix	Input x
Ox	Output x
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

