

Special variants on request



(Figure similar)



Figure	Circuit board dimensions <sup>(1)</sup>	Inputs digital	Outputs digital	Inputs analog	Connection <sup>(2)</sup>	Coated <sup>(3)</sup>	LED status display <sup>(4)</sup>	Input voltage (sensor supply) <sup>(5)</sup>	Output voltage (actuator supply) <sup>(6)</sup>	ASi address <sup>(7)</sup>	Art.no.
	73mm x 39,5mm	4	4 x electronic	–	plug-in spring type terminals, straight	no	yes	out of ASi	out of ASi	1 AB slave	<b>BWR3195</b>

(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 <sup>2</sup>	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 <sup>2</sup>	plug-in spring type terminals nominal cross section 0,5 mm <sup>2</sup>	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.

(7) **ASi address:** AB slave (max. 62 AB Slaves/ASi network), 2 AB slaves (max. 12 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.

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

<b>Article no.</b>		<b>BWR3195</b>
<b>Connection</b>		
ASi / AUX / peripheral connection		plug-in spring type terminals, straight
Length of connector cable		I/O: max. 1,5 m <sup>(1)</sup>
<b>ASi</b>		
Profile		S -7.A.7, ID1=7 (fixed)
Address		1 AB slave
Required Master profile		≥M4
Since ASi specification		3
Operating voltage		18 ... 31,6 V
Max. current consumption		230 mA
<b>AUX</b>		
Voltage		–
Max. current consumption		–
<b>Inputs digital</b>		
Number		4
Power supply		out of ASi
Power supply of attached sensors	up to 50 °C	max. 180 mA, Σ (In/Out) ≤180 mA
	at 55 °C	
	at 70 °C	
Input level		U <sub>in</sub> <2 V low, U <sub>in</sub> >10 V high
<b>Outputs digital</b>		
Number		4
Power supply		out of ASi
Max. current consumption	up to 50 °C	100 mA per output, Σ (In/Out) ≤180 mA
	at 55 °C	
	at 70 °C	
<b>Display</b>		
LED indicators		yes
<b>UL Recognized Component</b>		
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.
<b>Environment</b>		
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		30 g
Dimensions (W / H / D in mm)		73 / 39,5 / 18,5 (without plug-in connector plug)

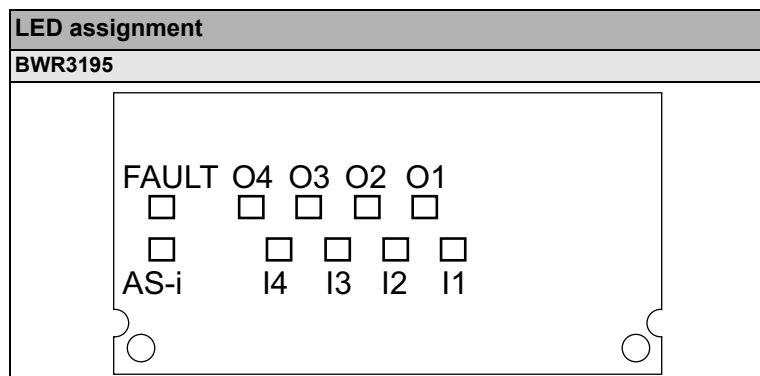
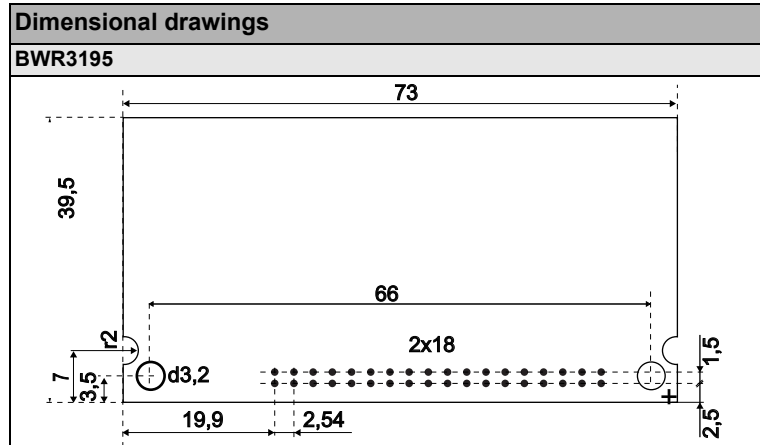
<sup>(1)</sup> loop resistance: ≤150 Ω

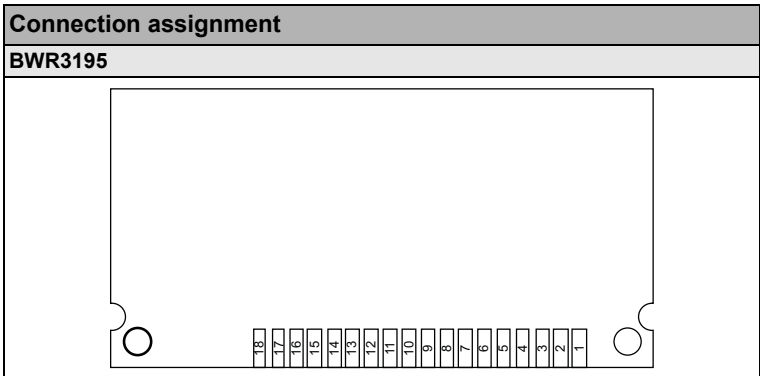
Programming	Bit Setting Digital IO			
	D3	D2	D1	D0
	input			
BWR3195	I4	I3	I2	I1
	output			
BWR3195	O4	O3	O2	O1

Programming	Parameter bit			
	P3	P2	P1	P0
BWR3195	not used	0=on / 1=off (synchronous I/O mode)	0=on / 1=off (data input filter)	0=off / 1=on (Watchdog)

Programming	
BWR3195	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
n.c.	not connected





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

