

## Robust housing solution for cabinet mounting



(Figure similar)



Figure	Type	Inputs digital	Outputs digital	Input voltage (sensor supply) <sup>(1)</sup>	Output voltage (actuator supply) <sup>(2)</sup>	ASi connection <sup>(3)</sup>	ASi address <sup>(4)</sup>	Article No.
	stainless Steel, IP20, depth: 45 mm	4	3 x relay	out of ASi	–	clamps	1 AB address	<b>BW1808</b>
	stainless Steel, IP20, depth: 45 mm	4	4 x relay	out of ASi	–	clamps	1 single address	<b>BW1926</b>
	stainless Steel, IP20, depth: 45 mm	4	4 x electronic	out of AUX	out of AUX	clamps	1 AB address	<b>BW1907</b>
	stainless Steel, IP20, depth: 45 mm	4	4 x electronic	out of AUX	out of AUX	clamps	1 single address	<b>BWU2565</b>
	stainless Steel, IP20, depth: 45 mm	8	–	out of AUX	–	clamps	2 AB addresses	<b>BWU2077</b>
	stainless Steel, IP20, depth: 45 mm	–	8 x electronic	–	out of AUX	clamps	2 AB addresses	<b>BW2078</b>
	stainless Steel, IP20, depth: 90 mm	4	4 x relay	out of ASi	–	clamps	1 single address	<b>BW2555</b>
	stainless Steel, IP20, depth: 90 mm	8	–	out of AUX	–	clamps	2 AB addresses	<b>BW2556</b>

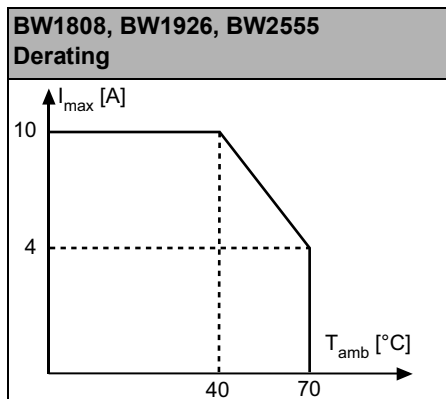
Replacement, ASi version 2: Single ASi nodes (digital), work even with the first ASi Masters.

- (1) **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.
- (2) **Output voltage (actuator supply):** Electronic 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. For relay outputs the relay contacts are initiated from ASi. The load circuit is powered externally as specified in the data sheet.
- (3) **ASi connection:** the connection to ASi as well to AUX (auxiliary 24 V power) is made via yellow resp. black ASi profile cable with piercing technology or via M12 socket (in IP20 via clamps).
- (4) **ASi address:** 1 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.

Article no.	BW1808		BW1926		BW2555	
<b>General data</b>						
Device type	input / output					
<b>Connection</b>						
ASi / AUX connection	spring type terminals					
Periphery connection	spring type terminals					
Length of connector cable	I: max. 1,5 m O: unlimited <sup>(1)</sup>					
<b>ASi</b>						
Profile	S-7.A.E, ID1= 7 (default)		S-7.F.E, ID1= F (default)			
ASi address	1 AB address		1 single address			
Required Master profile	≥M3		≥M0			
Since ASi specification	2.1		2			
Operating voltage	30 V (26 ... 31,6 V)					
Max. current consumption	200 mA					
Max. current consumption without sensor/ actuator supply	<30 mA					
<b>AUX</b>						
Voltage	-					
Max. current consumption	-					
<b>Input</b>						
Number	4					
Power supply	out of ASi					
Power supply of attached sensors	max. 100 mA					
Input level	inputs 24 V <sub>DC</sub> < 0,8 mA (low) > 5 mA (high)					
<b>Output</b>						
Number	up to +40 °	3 x relays, change over, 230 V; 10 A <sup>(2)</sup> (AC1)		4 x relays, change over, 230 V; 10 A <sup>(2)</sup> (AC1)		
	at +70 °C	3 x relays, change over, 230 V; 4 A <sup>(2)</sup> (AC1)		4 x relays, change over, 230 V; 4 A <sup>(2)</sup> (AC1)		
Relay control	out of ASi					
Max. output current	-					
<b>Display</b>						
LED PWR (green)	ASi voltage o.k.					
LED AUX (green)	-					
LED FLT/FAULT (red)	communication error					
LEDs I1 ... In (yellow)	state of inputs I1 ... I4					
LEDs O1 ... On (yellow)	state of outputs O1 ... O3		state of outputs O1 ... O4			
<b>Environment</b>						
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 60529					
Can be used in passively safe paths up to SIL3/PLe	yes <sup>(3)</sup>					
UL certified	yes					
Operating altitude	max. 2000 m					
Ambient temperature	-25 °C ... +45 °C (up to max. +70 °C) <sup>(4)</sup>					
Storage temperature	-25 °C ... +70 °C					
Housing	stainless steel, for DIN rail mounting					
Protection category	IP20					
Weight	330 g			440 g		
Dimensions (W / H / D) in mm	50 / 120 / 45			50 / 120 / 90		

(1) Loop resistance:  $\leq 150 \Omega$ .

(2)



It is possible to connect multiple relay modules in parallel.

(3) The module is suitable for use in passively safe paths as it has no connection to an AUX potential.

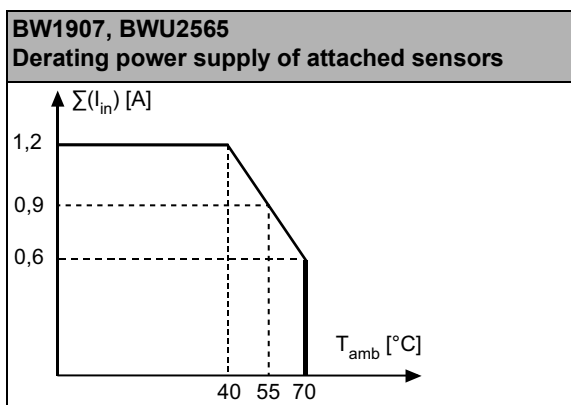
(4) Maximum ambient operating temperature +45 °C according UL certificate for the use in the USA and Canada.

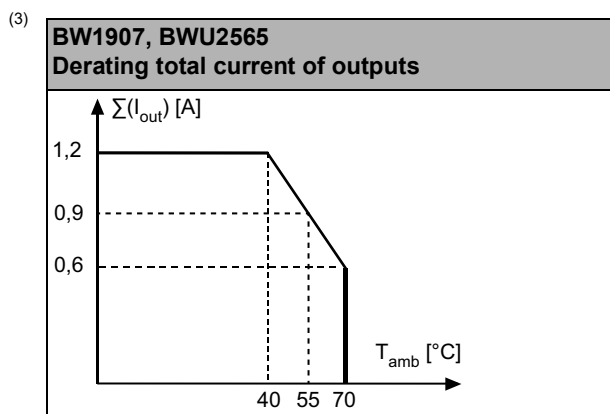
Article no.	BWU2565	BW1907
<b>General data</b>		
Device type	input/output	
<b>Connection</b>		
ASi / AUX Connection	spring type terminals	
Periphery connection	sprint type terminals	
Length of connector cable	I/O: max. 1,5 m <sup>(1)</sup>	
<b>UL-specifications (UL61010-1 and UL61010-2-201)</b>		
External protection	An isolated source with a secondary open circuit voltage of $\leq 30 V_{DC}$ with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.	
<b>ASi</b>		
Profile	S-7. F. E, ID1=7 (fixed)	S-7.A.7, ID1= 7 (fixed)
Address	1 Single address	1 AB address
Required Master profile	$\geq M0$	$\geq M4$
Since ASi specification	2	3
Operating voltage	30 V (18 ... 31,6 V)	
Max. current consumption	60 mA	
Max. current consumption without sensor/ actuator supply	<30 mA	
<b>AUX</b>		
Voltage	24 V (18 ... 30 V)	
Max. current consumption	AUX-I: 1,2 A permanent operating; 4 A max.	AUX-I: 1,2 A permanent operation; 4 A max.
	AUX-O: 1,2 A permanent operation; 4 A max.	AUX-O: 2 A permanent operation; 4 A max.
	in total: 8 A max.	in total: 8 A max.
<b>Input</b>		
Number	4	
Power supply	out of AUX	
power supply of attached sensors	up to +40 °C	1,2 A permanent operation <sup>(2)</sup>
	at +55 °C	0,9 A permanent operation <sup>(2)</sup>
	at +70 °C	0,6 A permanent operation <sup>(2)</sup>
Switching threshold	inputs 24 V <sub>DC</sub> < 0,8 mA (low) > 5 mA (high)	

Article no.		BWU2565	BW1907
<b>Output</b>			
Number		4 x electronic	
Power supply		out of AUX	
Max. output current	up to +40 °C	0,5 A per output, $\Sigma$ (Out) 1,2 A <sup>(3)</sup>	
	at +55 °C	0,5 A per output, $\Sigma$ (Out) 0,9 A <sup>(3)</sup>	
	at +70 °C	0,5 A per output, $\Sigma$ (Out) 0,6 A <sup>(3)</sup>	
<b>Display</b>			
LED PWR (green)		on: ASi voltage o.k	
LED AUX (green)		AUX-I: AUX voltage for inputs o.k., AUX-O: AUX voltage for outputs o.k.	
LED FLT/FAULT (red)		on: communication error flashing: AUX I voltage missing or overload	
LEDs I1 ... In (yellow)		state of input I1 ... I4	
LEDs O1 ... On (yellow)		state of outputs O1 ... O4	
<b>Environment</b>			
Applied standards		EN 61000-6-2 EN 61000-6-3 EN 60529	
Can be used in passively safe paths up to SIL3/PLe		no <sup>(4)</sup>	
UL certified		no	
Operating altitude		max. 2000 m	
Ambient temperature		-25 °C ... +70 °C	
Storage temperature		-40 °C ... +70 °C	
Housing		stainless steel, for DIN rail mounting	
Protection category		IP20	
Weight		330 g	
Dimensions (W / H / D) in mm		50 / 120 / 45	

(1) Loop resistance:  $\leq 150 \Omega$ .

(2)





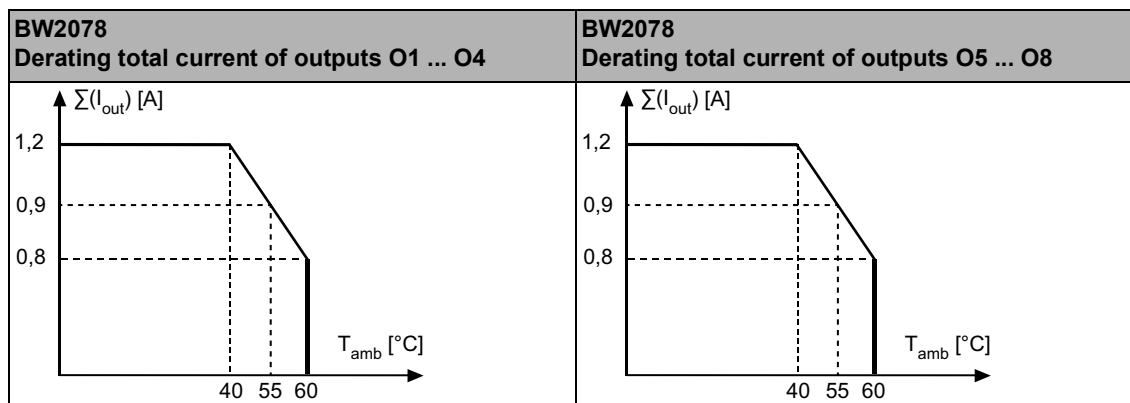
(4) The module is not suitable for use in passively safe paths because an exclusion of errors cannot be assumed for the connection of the two potentials, ASi and AUX.

Article no.	BW2078	BWU2077	BW2556
<b>General data</b>			
Device type	output		input
<b>Connection</b>			
ASi / AUX Connection		spring type terminals	
Periphery connection		spring type terminals	
Length of connector cable	O: max. 1,5 m <sup>(1)</sup>		I: max. 1,5 m <sup>(1)</sup>
<b>UL-specifications (UL61010-1 and UL61010-2-201)</b>			
External protection	An isolated source with a secondary open circuit voltage of ≤30 V <sub>DC</sub> with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.		
<b>ASi</b>			
Profile	S-7.A.7, ID1= 7 (fixed)		2 x S-0.A.E, ID1= 7 (fixed)
Address		2 AB addresses	
Required Master profile	≥M4		≥M3
Since ASi specification	3		2.1
Operating voltage	30 V (26 ... 31,6 V)		30 V (18 ... 31,6 V)
Max. current consumption	80 mA		100 mA
Max. current consumption without sensor/ actuator supply	<30 mA		
<b>AUX</b>			
Voltage	24 V (18 ... 30 V)		
Max. current consumption	AUX1: 2 A permanent operation; 4 A max.	AUX: 1,2 A permanent operation; 4 A max.	
	AUX2: 2 A permanent operation; 4 A max.		
	in total: 8 A max.		
<b>Input</b>			
Number	–		8
Power supply	–		out of AUX
power supply of attached sensors	up to +40 °C	–	1,2 A permanent operation <sup>(4)</sup>
	at +55 °C		0,9 A permanent operation <sup>(4)</sup>
	at +60 °C		0,8 A permanent operation <sup>(4)</sup>
Switching threshold	–		inputs 24 V <sub>DC</sub> < 0,8 mA (low) > 5 mA (high)

Article no.		BW2078	BWU2077	BW2556
<b>Output</b>				
Number		8 x electronic		–
Power supply		out of AUX		–
Max. output current	up to +40 °C	0,5 A per output, $\Sigma$ (O1 ... O4) 1,2 A + $\Sigma$ (O5 ... O8) 1,2 A <sup>(2)</sup>		–
	at +55 °C	0,5 A per output, $\Sigma$ (O1 ... O4) 0,9 A + $\Sigma$ (O5 ... O8) 0,9 A <sup>(2)</sup>		
	at +60 °C	0,5 A per output, $\Sigma$ (O1 ... O4) 0,6 A + $\Sigma$ (O5 ... O8) 0,8 A <sup>(2)</sup>		
<b>Display</b>				
LED PWR (green)			on: ASi voltage o.k. flashing: address 0	
LED AUX (green)		AUX 1, AUX 2: AUX voltage o.k.		AUX voltage o.k.
LED FLT/FAULT (red)		communication error		on: communication error flashing: AUX voltage missing or overload
LEDs I1 ... I8 (yellow)		–		state of inputs I1 ... I8
LEDs O1 ... O8 (yellow)		state of outputs O1 ... O8		–
<b>Environment</b>				
Applied standards		EN 61000-6-2 EN 61000-6-3 EN 60529		EN 61131-2 EN 61000-6-2 EN 61000-6-3 EN 60529
Can be used in passively safe paths up to SIL3/PLe			no <sup>(3)</sup>	
UL certified			no	
Operating altitude			max. 2000 m	
Ambient temperature			-25 °C ... +60 °C	
Storage temperature			-40 °C ... +70 °C	
Housing			stainless steel, for DIN rail mounting	
Protection category			IP20	
Weight			330 g	440 g
Dimensions (W / H / D) in mm			50 / 120 / 45	50 / 120 / 90

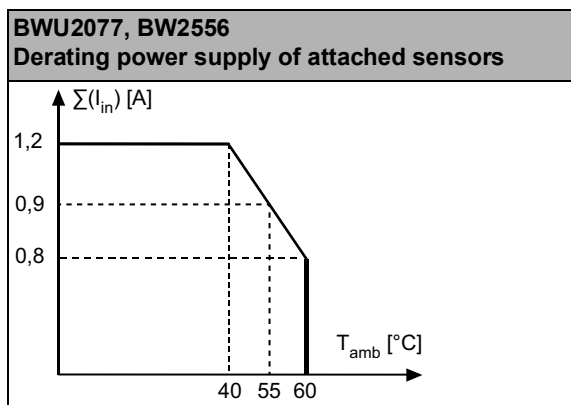
(1) Loop resistance:  $\leq 150 \Omega$ .

(2)



(3) The module is not suitable for use in passively safe paths because an exclusion of errors cannot be assumed for the connection of the two potentials, ASi and AUX.

(4)



UL-specifications (UL61010)	
<b>BWU2077, BWU2565</b>	
External protection	An isolated source with a secondary open circuit voltage of $\leq 30 V_{DC}$ with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.
In general	UL mark does not provide UL certification for any functional safety rating or aspects of the above devices.

Programming	Bit setting			
	D3	D2	D1	D0
	input			
<b>BW1808 / BW1907 / BW1926 / BW2555 / BWU2565</b>	I4	I3	I2	I1
<b>BWU2077 / BW2556</b>	ASi node 1: I4 ASi node 2: I8	ASi node 1: I3 ASi node 2: I7	ASi node 1: I2 ASi node 2: I6	ASi node 1: I1 ASi node 2: I5
	output			
<b>BW1808</b>	–	O3	O2	O1
<b>BW1907 / BW1926 / BW2555 / BWU2565</b>	O4	O3	O2	O1
<b>BW2078</b>	ASi node 1: A4 ASi node 2: A8	ASi node 1: A3 ASi node 2: A7	ASi node 1: A2 ASi node 2: A6	ASi node 1: A1 ASi node 2: A5
	parameter bit			
	P3	P2	P1	P0
<b>BW1907 / BWU2565</b>	not used	0= On / 1= Off (synchronous I/O mode)	0= On / 1= Off (data input filter 128 $\mu$ s)	0= Off / 1= On ( Watchdog)
<b>BW1808 / BW1926 / BWU2077 / BW2078 / BW2555 / BW2556</b>	not used			

Connections:																													
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### Accessories:

- ASi-5/ASi-3 Address Programming Device (art. no. BW4708)