

Robust housing solution for cabinet mounting



(Figure similar)



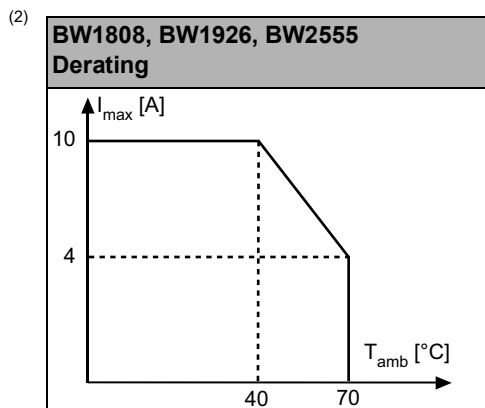
Figure	Type	Inputs digital	Outputs digital	Input voltage (sensor supply) ⁽¹⁾	Output voltage (actuator supply) ⁽²⁾	ASi connection ⁽³⁾	ASi address ⁽⁴⁾	Article No.
	stainless Steel, IP20, depth: 45 mm	4	3 x relay	out of ASi	–	clamps	1 AB address	BW1808
	stainless Steel, IP20, depth: 45 mm	4	4 x relay	out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

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	
General data						
Device type	input / output					
Connection						
ASi / AUX connection	spring type terminals					
Periphery connection	spring type terminals					
Length of connector cable	I: max. 1,5 m O: unlimited ⁽¹⁾					
ASi						
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					
AUX						
Voltage	-					
Max. current consumption	-					
Input						
Number	4					
Power supply	out of ASi					
Power supply of attached sensors	max. 100 mA					
Input level	inputs 24 V _{DC} < 0,8 mA (low) > 5 mA (high)					
Output						
Number	up to +40 °	3 x relays, change over, 230 V; 10 A ⁽²⁾ (AC1)		4 x relays, change over, 230 V; 10 A ⁽²⁾ (AC1)		
	at +70 °C	3 x relays, change over, 230 V; 4 A ⁽²⁾ (AC1)		4 x relays, change over, 230 V; 4 A ⁽²⁾ (AC1)		
Relay control	out of ASi					
Max. output current	-					
Display						
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			
Environment						
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 60529					
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes ⁽³⁾					
UL certified	yes					
Operating altitude	max. 2000 m					
Ambient temperature	-25 °C ... +45 °C (up to max. +70 °C) ⁽⁴⁾					
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: $\leq 150 \Omega$.



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.

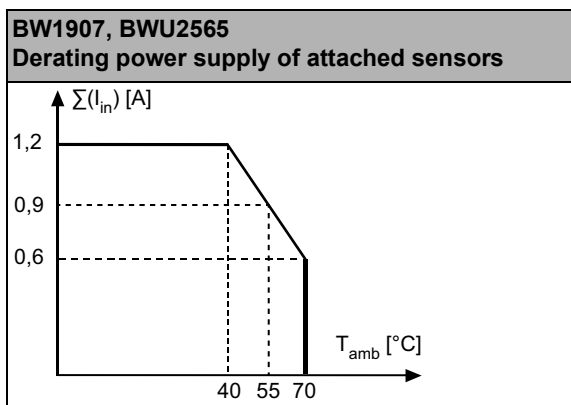
(4) Maximum ambient operating temperature +45 °C according UL certificate for the use in the USA and Canada.

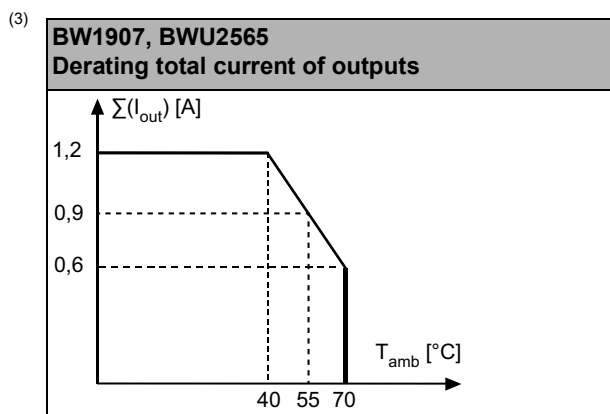
Article no.	BWU2565	BW1907
General data		
Device type	input/output	
Connection		
ASi / AUX Connection	spring type terminals	
Periphery connection	sprint type terminals	
Length of connector cable	I/O: max. 1,5 m ⁽¹⁾	
UL-specifications (UL61010-1 and UL61010-2-201)		
External protection	An isolated source 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.	
ASi		
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	
AUX		
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.	
Input		
Number	4	
Power supply	out of AUX	
power supply of attached sensors	up to +40 °C	1,2 A permanent operation ⁽²⁾
	at +55 °C	0,9 A permanent operation ⁽²⁾
	at +70 °C	0,6 A permanent operation ⁽²⁾
Switching threshold	inputs 24 V _{DC} < 0,8 mA (low) > 5 mA (high)	

Article no.		BWU2565	BW1907
Output			
Number		4 x electronic	
Power supply		out of AUX	
Max. output current	up to +40 °C	0,5 A per output, \sum (Out) 1,2 A ⁽³⁾	
	at +55 °C	0,5 A per output, \sum (Out) 0,9 A ⁽³⁾	
	at +70 °C	0,5 A per output, \sum (Out) 0,6 A ⁽³⁾	
Display			
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	
Environment			
Applied standards		EN 61000-6-2 EN 61000-6-3 EN 60529	
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe		no ⁽⁴⁾	
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)





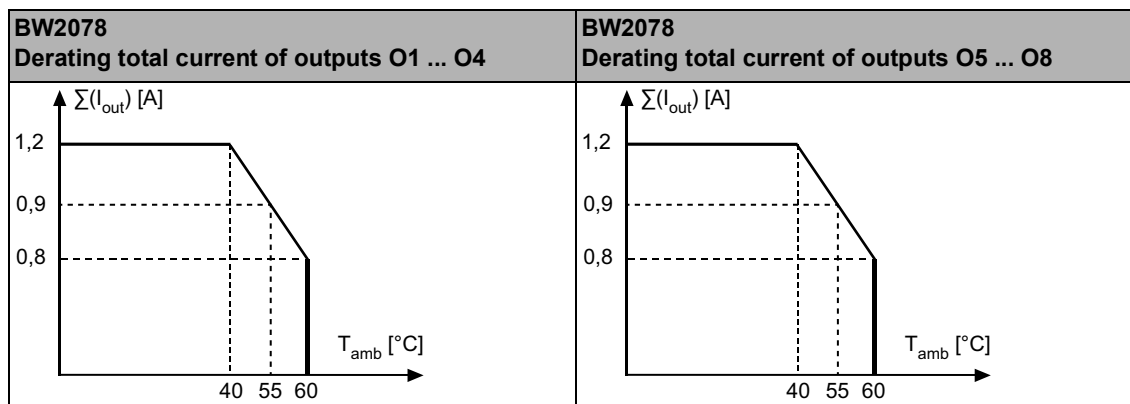
(4) The module is not suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors cannot be assumed for the connection of the two ASi and AUX potentials.
If the module is supplied from an unswitched AUX cable, this has no influence on the safety consideration for the paths with passively safe-switched AUX cable. In an ASi circuit, paths supplied from a passively safe-switched AUX cable and paths supplied from unswitched AUX potential can be used together.

Article no.	BW2078	BWU2077	BW2556
General data			
Device type	output		input
Connection			
ASi / AUX Connection	spring type terminals		
Periphery connection	spring type terminals		
Length of connector cable	O: max. 1,5 m ⁽¹⁾	I: max. 1,5 m ⁽¹⁾	
UL-specifications (UL61010-1 and UL61010-2-201)			
External protection	An isolated source with a secondary open circuit voltage of ≤30 V _{DC} with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.		
ASi			
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		
AUX			
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.		
Input			
Number	–	8	
Power supply	–	out of AUX	
power supply of attached sensors	up to +40 °C	–	1,2 A permanent operation ⁽⁴⁾
	at +55 °C	–	0,9 A permanent operation ⁽⁴⁾
	at +60 °C	–	0,8 A permanent operation ⁽⁴⁾
Switching threshold	–	inputs 24 V _{DC} < 0,8 mA (low) > 5 mA (high)	

Article no.	BW2078		BWU2077	BW2556
Output				
Number	8 x electronic			–
Power supply	out of AUX			–
Max. output current	up to +40 °C	0,5 A per output, Σ (O1 ... O4) 1,2 A + Σ (O5 ... O8) 1,2 A ⁽²⁾		–
	at +55 °C	0,5 A per output, Σ (O1 ... O4) 0,9 A + Σ (O5 ... O8) 0,9 A ⁽²⁾		
	at +60 °C	0,5 A per output, Σ (O1 ... O4) 0,6 A + Σ (O5 ... O8) 0,8 A ⁽²⁾		
Display				
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 ... In (yellow)	–		state of inputs I1 ... I8	
LEDs O1 ... On (yellow)	state of outputs O1 ... O8		–	
Environment				
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	
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe			no ⁽³⁾	
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: $\leq 150 \Omega$.

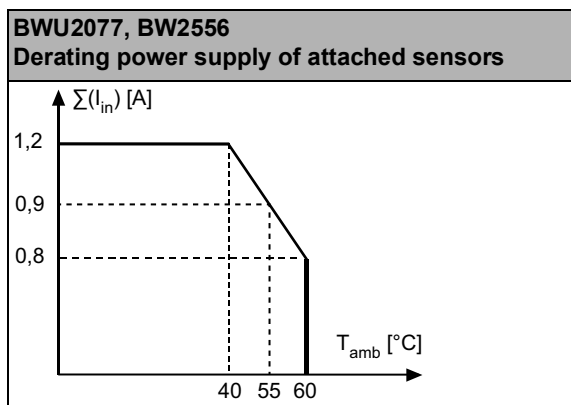
(2)



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

If the module is supplied from an unswitched AUX cable, this has no influence on the safety consideration for the paths with passively safe-switched AUX cable. In an ASi circuit, paths supplied from a passively safe-switched AUX cable and paths supplied from unswitched AUX potential can be used together.

(4)



UL-specifications (UL61010)	
BWU2077, BWU2565	
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			
BW1808 / BW1907 / BW1926 / BW2555 / BWU2565	I4	I3	I2	I1
BWU2077 / BW2556	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			
BW1808	–	O3	O2	O1
BW1907 / BW1926 / BW2555 / BWU2565	O4	O3	O2	O1
BW2078	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
BW1907 / BWU2565	not used	0= On / 1= Off (synchronous I/O mode)	0= On / 1= Off (data input filter 128 μ s)	0= Off / 1= On (Watchdog)
BW1808 / BW1926 / BWU2077 / BW2078 / BW2555 / BW2556	not used			

Connections:																													
BW1808 / BW1926 / BW2555																													
<table border="1"> <tr> <td>ASi+</td> <td>ASi-</td> </tr> <tr> <td>+24 V I1</td> <td></td> </tr> <tr> <td>+24 V I2</td> <td></td> </tr> <tr> <td>0 V 0V</td> <td></td> </tr> <tr> <td>+24 V I3</td> <td></td> </tr> <tr> <td>+24 V I4</td> <td></td> </tr> <tr> <td>ASi+</td> <td>ASi-</td> </tr> </table>	ASi+	ASi-	+24 V I1		+24 V I2		0 V 0V		+24 V I3		+24 V I4		ASi+	ASi-	<table border="1"> <tr> <td>PE</td> <td>PE</td> </tr> <tr> <td>K4CM</td> <td>K4NO</td> </tr> <tr> <td>K4NC</td> <td>K3NC</td> </tr> <tr> <td>K3CM</td> <td>K3NO</td> </tr> <tr> <td>K2CM</td> <td>K2NO</td> </tr> <tr> <td>K2NC</td> <td>K1NC</td> </tr> <tr> <td>K1CM</td> <td>K1NO</td> </tr> </table>	PE	PE	K4CM	K4NO	K4NC	K3NC	K3CM	K3NO	K2CM	K2NO	K2NC	K1NC	K1CM	K1NO
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+24 V ext.in,	0 V ext.in			Supply inputs for inputs																																															
+24 V, 0 V				Sensor supply																																															
I1 ... I8				Inputs																																															
BW2078																																																			
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Accessories:

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