

## Robust housing solution for cabinet mounting



(Figure similar)



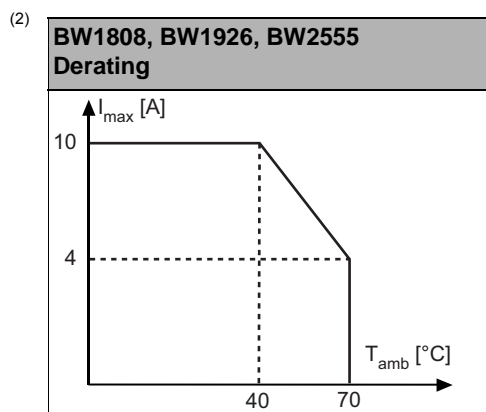
Figure	Type	Inputs digital	Outputs digital	Input voltage (sensor supply) <sup>(1)</sup>	Output voltage (actuator supply) <sup>(2)</sup>	AS-i connection <sup>(3)</sup>	AS-i address <sup>(4)</sup>	Article No.
	stainless Steel, IP20, depth: 45 mm	4	3 x relay	out of AS-i	–	clamps	1 AB slave	<b>BW1808</b>
	stainless Steel, IP20, depth: 45 mm	4	4 x relay	out of AS-i	–	clamps	1 single slave	<b>BW1926</b>
	stainless Steel, IP20, depth: 45 mm	4	4 x electronic	out of AUX	out of AUX	clamps	1 AB slave	<b>BWU1907</b>
	stainless Steel, IP20, depth: 45 mm	4	4 x electronic	out of AUX	out of AUX	clamps	1 single slave	<b>BWU2565</b>
	stainless Steel, IP20, depth: 45 mm	8	–	out of AUX	–	clamps	2 AB slaves	<b>BWU2077</b>
	stainless Steel, IP20, depth: 45 mm	–	8 x electronic	–	out of AUX	clamps	2 AB slaves	<b>BWU2078</b>
	stainless Steel, IP20, depth: 90 mm	4	4 x relay	out of AS-i	–	clamps	1 single slave	<b>BW2555</b>
	stainless Steel, IP20, depth: 90 mm	8	–	out of AUX	–	clamps	2 AB slaves	<b>BWU2556</b>

**Replacement, AS-i version 2.0: Single Slaves (digital), work even with the first AS-i Masters.**

- (1) **Input voltage (sensor supply):** inputs are supplied by AS-i or by AUX (auxiliary 24 V power). If supplied by AS-i, inputs shall not be connected to earth or to external potential.
- (2) **Output voltage (actuator supply):** Electronic outputs are supplied by AS-i or by AUX (auxiliary 24 V power). If supplied by AS-i, outputs shall not be connected to earth or to external potential. For relay outputs the relay contacts are initiated from AS-i. The load circuit is powered externally as specified in the data sheet.
- (3) **AS-i connection:** the connection to AS-i as well to AUX (auxiliary 24 V power) is made via yellow resp. black AS-i profile cable with piercing technology or via M12 socket (in IP20 via clamps).
- (4) **AS-i address:** 1 AB Slave (max. 62 AB Slaves/AS-i network), 2 AB Slaves (max. 31 modules with 2 AB Slaves), Single Slaves (max. 31 Single Slaves/AS-i 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 AS-i Slave profiles.

Article no.	BW1808		BW1926		BW2555	
<b>General data</b>						
Device type	input / output					
<b>Connection</b>						
AS-i / 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>AS-i</b>						
Profile	S-7.A.E, ID1= 7 (default)		S-7.F.E, ID1= F (default)			
AS-i address	1 AB slave		1 single slave			
Required Master profile	≥M3		≥M0			
Since AS-i specification	2.1		2.0			
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 AS-i					
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 AS-i					
Max. output current	-					
<b>Display</b>						
LED PWR (green)	AS-i 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					
UL certified	yes					
Operating altitude	max. 2000 m					
Ambient temperature	-25 °C ... +45 °C (up to max. +70 °C) <sup>(3)</sup>					
Storage temperature	-25 °C ... +70 °C					
Housing	stainless steel, for DIN rail mounting					
Protection category	IP20					
Voltage of insulation	330 g			440 g		
Weight	50 / 120 / 45			50 / 120 / 90		

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



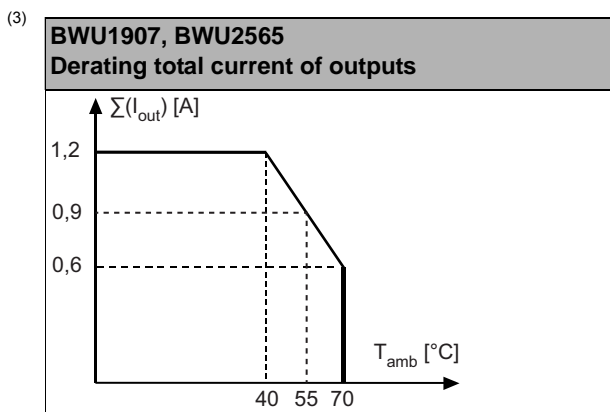
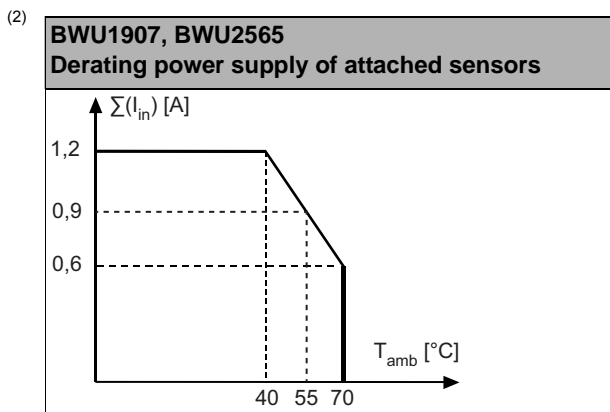
It is possible to connect multiple relay modules in parallel.

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

Article no.	BWU2565	BWU1907
<b>General data</b>		
Device type	input/output	
<b>Connection</b>		
AS-i / 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>AS-i</b>		
Profile	S-7. F. E, ID1=7 (fixed)	S-7.A.7, ID1= 7 (fixed)
Address	1 Single Slave	1 AB Slave
Required Master profile	$\geq M0$	$\geq M4$
Since AS-i specification	2.0	3.0
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		BWU1907
<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: AS-i 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		
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		
Voltage of insulation	330 g		
Weight	50 / 120 / 45		

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

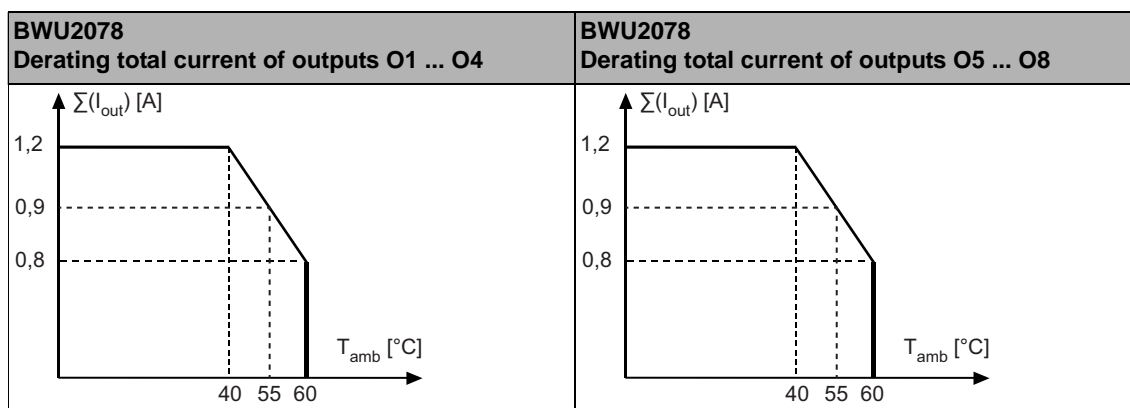


Article no.	BWU2078		BWU2077		BWU2556	
<b>General data</b>						
Device type	output			input		
<b>Connection</b>						
AS-i / AUX Connection	spring type terminals					
Periphery connection	spring type terminals					
Length of connector cable	O: max. 1,5 m <sup>(1)</sup>			I: max. 1,5 m <sup>(1)</sup>		
<b>UL-specifications (UL61010-1 and UL61010-2-201)</b>						
External protection	An isolated source with a secondary open circuit voltage of $\leq 30 V_{DC}$ with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.					
<b>AS-i</b>						
Profile	S-7.A.7, ID1= 7 (fixed)			2 x S-0.A.E, ID1= 7 (fixed)		
Address	2 AB Slaves					
Required Master profile	$\geq M4$			$\geq M3$		
Since AS-i specification	3.0			2.1		
Operating voltage	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>(3)</sup>	
	at +55 °C	-			0,9 A permanent operation <sup>(3)</sup>	
	at +60 °C	-			0,8 A permanent operation <sup>(3)</sup>	
Switching threshold	-			inputs 24 V <sub>DC</sub> < 0,8 mA (low) > 5 mA (high)		
<b>Output</b>						
Number	8 x electronic			-		
Power supply	out of AUX			-		
Max. output current	up to +40 °C	0,5 A per output, $\sum (O1 \dots O4) 1,2 A +$ $\sum (O5 \dots O8) 1,2 A$ <sup>(2)</sup>			-	
	at +55 °C	0,5 A per output, $\sum (O1 \dots O4) 0,9 A +$ $\sum (O5 \dots O8) 0,9 A$ <sup>(2)</sup>			-	
	at +60 °C	0,5 A per output, $\sum (O1 \dots O4) 0,6 A +$ $\sum (O5 \dots O8) 0,8 A$ <sup>(2)</sup>			-	
<b>Display</b>						
LED PWR (green)				on: AS-i 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			-		

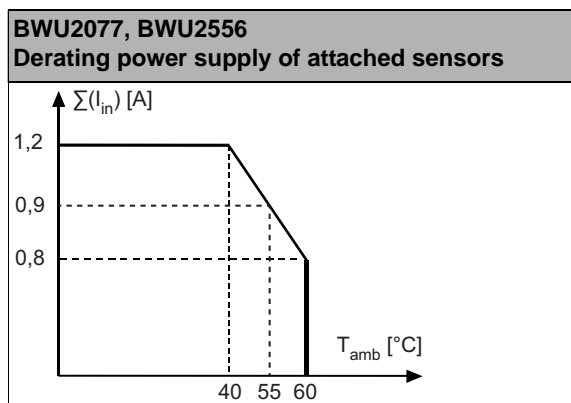
Article no.	BWU2078	BWU2077	BWU2556
<b>Environment</b>			
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 60529		EN 61131-2 EN 61000-6-2 EN 61000-6-3 EN 60529
UL certified	no		
Operating altitude	max. 2000 m		
Ambient temperature	-25 °C ... +60 °C		
Storage temperature	-40 °C ... +70 °C		
Housing	stainless steel, for DIN rail mounting		
Protection category	IP20		
Voltage of insulation	330 g		440 g
Weight	50 / 120 / 45		50 / 120 / 90

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

(2)



(3)



Programming	Bit setting			
	D0	D1	D2	D3
	input			
BW1808 / BWU1907 / BW1926 / BW2555 / BWU2565	I1	I2	I3	I4
BWU2077 / BWU2556	Slave 1: I1	Slave 1: I2	Slave 1: I3	Slave 1: I4
	Slave 2: I5	Slave 2: I6	Slave 2: I7	Slave 2: I8
	output			
BW1808	O1	O2	O3	–
BWU1907 / BW1926 / BW2555 / BWU2565	O1	O2	O3	O4
BWU2078	Slave 1: A1	Slave 1: A2	Slave 1: A3	Slave 1: A4
	Slave 2: A5	Slave 2: A6	Slave 2: A7	Slave 2: A8
	parameter bit			
	P0	P1	P2	P3
BWU1907 / BWU2565	0= Off / 1= On ( Watchdog)	0= ON / 1= Off (data input filter 128 µs)	0= On / 1= Off (synchronous I/O mode)	not used
BW1808 / BW1926 / BWU2077 / BWU2078 / BW2555 / BWU2556	not used			

Connections:																																												
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Connections:			
BWU2078			
		AS-i +, AS-i -	Connection to the AS-i bus
AS-i+	AS-i-	+24 V1 ext.in	Supply inputs for outputs outputs O1 ... O4
0 V 1 ext.in	+24 V 1 ext.in		
0 V 1	O 1	+24 V2 ext.in	Supply inputs for outputs outputs O5 ... O8
0 V 1	O 2		
0 V 1	O 3	0 V 2 ext.in	Reference potential for outputs O1 ... O4
0 V 1	O 4		
AS-i+	AS-i-	0 V 2	Reference potential for outputs O5 ... O8
		O 1 ... O 8	Outputs