

## 2 x connectors for profile cable

### Periphery connection

- via connecting wires
- M8 cable sockets
- M12 cable sockets
- 8 x push in terminals



(Figure similar)



Figure	Inputs digital	Outputs digital	Input voltage (sensor supply) (1)	Output voltage (actuator supply) (2)	Connection (3)	ASi address (4)	Special function	Art. no.
	4	2 x electronic	out of ASi	out of ASi	6 x M8 cable sockets, straight, 4 poles	1 AB address	to control valves Festo CPE14 / VUVG-L14 via ASi	<b>BWU3577</b>
	4	4 x electronic	out of ASi	out of AUX	4 x M8 cable sockets, straight, 4 poles	1 AB address	–	<b>BWU3555</b>
	2	2 x electronic	out of ASi	out of ASi	2 x M12 cable sockets, straight, 5 poles + 2 x M8 cable sockets, straight, 3 poles	1 AB address	–	<b>BWU3695</b>
	4	–	out of ASi	–	4 x M12 cable sockets, straight, 5 poles	1 AB address	–	<b>BWU3632</b>
	4	–	out of ASi	–	4 x M12 cable sockets, straight, 5 poles	1 AB address	–	<b>BWU3633</b>
	4	–	out of AUX	–	3 x round cable/ connecting wires 0,5 mm <sup>2</sup> + 1 x M8 cable socket, straight, 4 poles	1 AB address	–	<b>BWU3608</b>
	4	4 x electronic	out of ASi	out of AUX	2 x round cable/ connecting wires 0,25 mm <sup>2</sup>	1 AB address	–	<b>BWU3317</b>
	4	4 x electronic	out of ASi	out of AUX	2 x M12 cable sockets, straight, 5 poles	1 AB address	–	<b>BWU3507</b>
	4	4 x electronic	out of ASi	out of ASi	2 x round cable/ connecting wires 0,25 mm <sup>2</sup>	1 AB address	–	<b>BWU3326</b>
	3	4 x electronic	out of AUX	out of AUX	2 x M12 cable sockets, straight, 5 poles	1 AB address	to connect K50Pro Banner Stacklight to ASi	<b>BWU3785</b>
	4	–	out of ASi	–	2 x round cable/ connecting wires 0,34 mm <sup>2</sup>	1 AB address	–	<b>BWU3374</b>
	1	4 x electronic	out of ASi	out of ASi	1 x M12 cable sockets, straight, 5 poles + 1 x M12 cable sockets, angled, 5 poles	1 AB address	to connect Banner K50 Series EZ-Light, Type K50L...PQ + Wenglor Light Curtains Pick-to-Light	<b>BWU3534</b>
	4	4 x electronic	out of ASi	out of ASi	1 x round cable/ connecting wires 0,25 mm <sup>2</sup>	1 AB address	–	<b>BWU3500</b>
	4	4 x electronic	out of ASi	out of ASi	1 x round cable/ connecting wires 0,25 mm <sup>2</sup>	1 AB address	to connect Stack-Light Banner TL50GYRAQ + audible alarm (180 mA) to ASi	<b>BWU3606</b>
	4	4 x electronic	out of AUX	out of AUX	1 x M12 cable socket, straight, 8 poles	1 AB address	to connect Euchner MGB to ASi	<b>BWU3377</b>
	2	2 x electronic	out of AUX	out of AUX	1 x round cable/ connecting wires 0,25 mm <sup>2</sup>	1 AB address	to control Linak LA12 drives	<b>BWU3607</b>
	1	3 x electronic	out of ASi	out of ASi	1 x M12 cable socket, angled, 8 poles	1 AB address	to connect Banner K50 Series EZ-LIGHT, Typ K50AP***F2Q to ASi	<b>BWU3639</b>

Figure	Inputs digital	Outputs digital	Input voltage (sensor supply) <sup>(1)</sup>	Output voltage (actuator supply) <sup>(2)</sup>	Connection <sup>(3)</sup>	ASi address <sup>(4)</sup>	Special function	Art. no.
	4	–	out of AUX	–	2 x M12-cable sockets, straight, 5 poles	1 AB address	–	BWU3498
	2	2 x electronic	out of AUX	out of AUX	1 x M12 cable sockets, straight, 5 poles + 1 x round cable/ connecting wires 0,34 mm <sup>2</sup>	1 AB address	–	BWU3628
	2	2 x electronic	out of AUX	out of AUX	2 x M12 cable sockets, straight, 5 poles	1 AB address	–	BWU3497
	2	2 x electronic	out of AUX	out of AUX	2 x round cables/ connecting wires 0,34 mm <sup>2</sup>	1 AB address	–	BWU3602
	2	1 x electronic	out of AUX	out of AUX	2 x M12 cable sockets, angled, 5 poles:	1 AB address	–	BWU3250
	2	2 x electronic	out of ASi	out of ASi	1 x M12 cable socket, straight, 8 poles	1 AB address	–	BWU3400
	2	–	out of ASi	–	1 x M12 cable socket, angled, 5 poles	1 AB address	–	BWU3642
	2	–	out of AUX	–	1 x M12 cable socket, angled, 5 poles	1 AB address	–	BWU3564
	–	4 x electronic	–	out of AUX	1 x round cable/ connecting wires 0,25 mm <sup>2</sup>	1 AB address	–	BW3300
	–	4 x electronic	–	out of AUX	1 x round cable/ connecting wires 0,25 mm <sup>2</sup>	1 AB address	–	BWU3487
	–	4 x electronic	–	out of AUX	1 x M12 cable socket, straight, 5-poles	1 AB address	to connect general-purpose display Banner K50 Pro to ASi	BWU4087
	4	–	out of AUX	–	8 x push in terminals	1 AB address	–	BWU3349
	3	1 x electronic	out of AUX	out of AUX	8 x push in terminals	1 AB address	–	BWU3414
	–	4 x electronic	–	out of AUX	8 x push in terminals	1 AB address	–	BWU3342

(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):** 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

(3) **Connection:** further connection options are available on request.

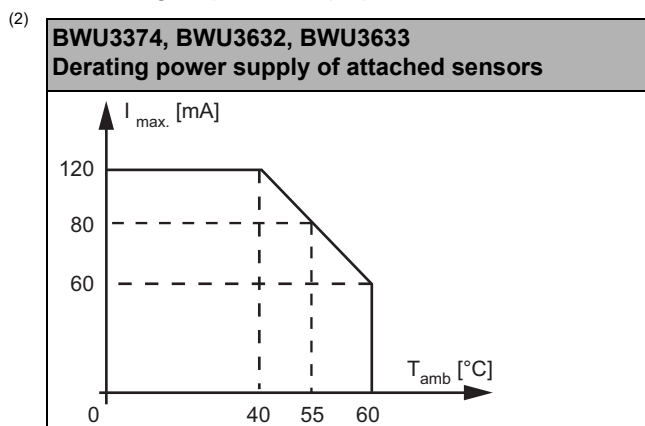
M12 cable socket, angled	M12 cable socket, straight	M8 cable socket, straight	round cable / connecting wires	Push in terminals
PUR line: oil resistant				

(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 2nd ASi node is turned off as long as the 1st ASi node is addressed to address "0". Upon request, ASi nodes are available with specific ASi node profiles.

Article No.	BWU3374	BWU3632	BWU3633	BWU3608	BWU3349
<b>General data</b>					
Device type	input				
<b>Connection</b>					
ASi/AUX connection	profile cable and piercing				
Periphery connection	2 x round cable/connecting wires 0,34 mm <sup>2</sup>	4 x M12 cable sockets, straight, 5 poles	3 x round cable/connecting wires 0,5 mm <sup>2</sup> + 1 x M8 cable socket, straight, 4 poles	8 x push in terminals; wire section flexible (wire end ferrule without plastic sleeve): min. 0,2 mm <sup>2</sup> ; max. 0,5 mm <sup>2</sup> /AWG20	
M12 wiring <sup>(1)</sup>	–	single wiring		–	
Round cable	0,5 m	0,3 m	2 m	1 m	–
max. allowed tensile strain 10 N					
<b>ASi</b>					
Profile	S-0.A.E (ID1=7 fixed)		S-0.A.E (ID1=7 default)	S-7.A.7 (ID1=7 fixed)	S-0.A.E (ID1=7 default)
Address	1 AB address				
Required Master profile	≥M3		≥M4		≥M3
As of ASi specification	2.1		3.0		2.1
Operating voltage	30 V (18 ... 31.6 V)				
Max. current consumption	165 mA		45 mA		35 mA
Max. current consumption without sensor/ actuator supply	45 mA		45 mA		35 mA
<b>AUX</b>					
Operating voltage	–		24 V (18 ... 30 V <sub>DC</sub> )		
Max. current consumption	–		1 A		
<b>Input</b>					
Number	4				
Power supply	out of ASi		out of AUX		
Power supply of attached sensors	up to +40 °C	120 mA <sup>(2)</sup>		1 A	
	at +55 °C	80 mA <sup>(2)</sup>			
	at +60 °C	60 mA <sup>(2)</sup>			
Switching threshold	U<5 V (low) U>15 V (high)				
<b>Display</b>					
LED ASi/FLT (red/green)	green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault <sup>(3)</sup> off: no ASi voltage				
LED AUX (green)	–		on: 24 V <sub>DC</sub> AUX off: no 24 V <sub>DC</sub> AUX		
LEDs I1 ... I4 (yellow)	state of inputs I1 ... I4				

Article No.	BWU3374	BWU3632	BWU3633	BWU3608	BWU3349
<b>Environment</b>					
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529				
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes <sup>(4)</sup>		yes <sup>(7)</sup>		no <sup>(8)</sup>
Operating altitude	max. 2000 m				
Ambient temperature	-30 °C ... +60 °C <sup>(2)(5)</sup>				-30 °C ... +60 °C (no condensation permitted)
Storage temperature	-25 °C ... +85 °C				
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)				plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)
Pollution degree	2				
Protection category	IP67 <sup>(6)</sup>				IP20
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude				
Insulation voltage	≥500 V				
Weight	100 g				50 g
Dimensions (W / H / D) in mm	60 / 45 / 35				60 / 45 / 19

- (1) **M12 wiring:**  
**Single wiring:** 1 input or output per connection.  
**Y wiring:** 2 inputs or outputs per connection.  
**Mixed wiring:** 1 input and 1 output per connection.



- (3) **see table "Peripheral fault indication"**
- (4) The module is suitable for use in passively safe paths as it has no connection to an AUX potential.
- (5) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.
- (6) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67
- (7) The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.
- (8) 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.	BWU3642	BWU3564	BWU3498
<b>General data</b>			
Device type	input		
<b>Connection</b>			
ASi/AUX connection	profile cable and piercing		
Periphery connection	1 x M12 cable socket, angled, 5 poles	2 x M12 cable sockets, straight, 5 poles	
M12 wiring <sup>(1)</sup>	Y wiring		
Round cable	1 m	0,4 m	
	max. allowed tensile strain 10 N		
<b>ASi</b>			
Profile	S-7.A.E (ID1=7 default)		
Address	1 AB address		
Required Master profile	≥M3		
As of ASi specification	2.1		
Operating voltage	30 V (18 ... 31.6 V)		
Max. current consumption	90 mA	35 mA	
Max. current consumption without sensor/ actuator supply	40 mA	35 mA	
<b>AUX</b>			
Operating voltage	–	24 V (18 ... 30 V <sub>DC</sub> )	
Max. current consumption	–	1 A	
<b>Input</b>			
Number	2		4
Power supply	out of ASi		out of AUX
Power supply of attached sensors	up to +50 °C	50 mA (up to +55 °C)	1 A <sup>(6)</sup>
	at +60 °C	–	1 A
	at +70 °C	–	
Switching threshold	U < 5 V (low) U > 15 V (high)		
<b>Display</b>			
LED ASi/FLT (red/green)	green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault <sup>(2)</sup> off: no ASi voltage		
LED AUX (green)	–	on: 24 V <sub>DC</sub> AUX off: no 24 V <sub>DC</sub> AUX	
LEDs I1 ... In (yellow)	state of inputs I1, I2		state of inputs I1 ... I4

Article No.	BWU3642	BWU3564	BWU3498
<b>Environment</b>			
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529		
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes <sup>(3)</sup>	no <sup>(7)</sup>	
Operating altitude	max. 2000 m		
Ambient temperature	-30 °C ... +55 °C <sup>(4)</sup>	-30 °C ... +70 °C <sup>(4)</sup> <sup>(6)</sup>	
Storage temperature	-25 °C ... +85 °C		
Housing	plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)		
Pollution degree	2		
Protection category	IP67 <sup>(5)</sup>		
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude		
Insulation voltage	≥ 500 V		
Weight	100 g		
Dimensions (W / H / D) in mm	60 / 45 / 19		

(1) **M12 wiring:**

**Single wiring:** 1 input or output per connection.

**Y wiring:** 2 inputs or outputs per connection.

**Mixed wiring:** 1 input and 1 output per connection.

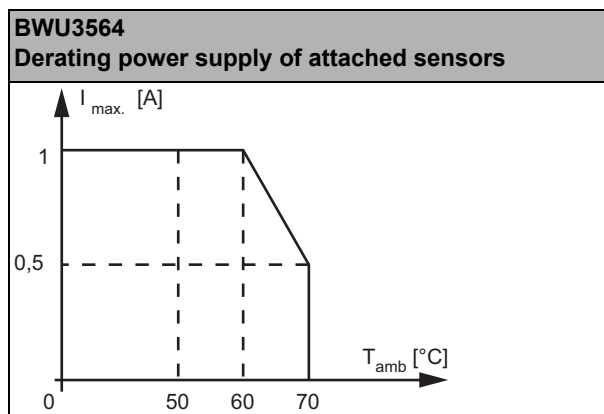
(2) **see table "Peripheral fault indication"**

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

(4) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

(5) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67.

(6)



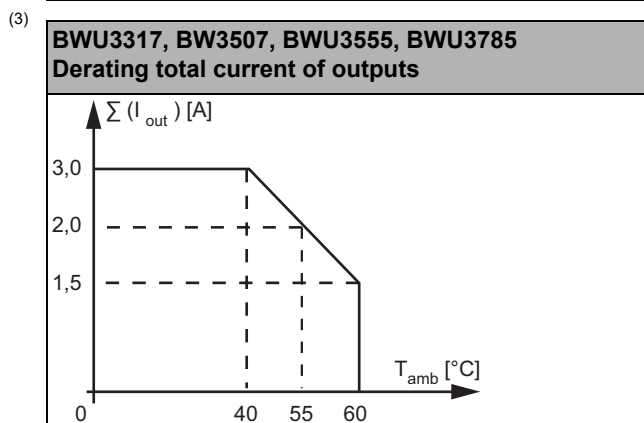
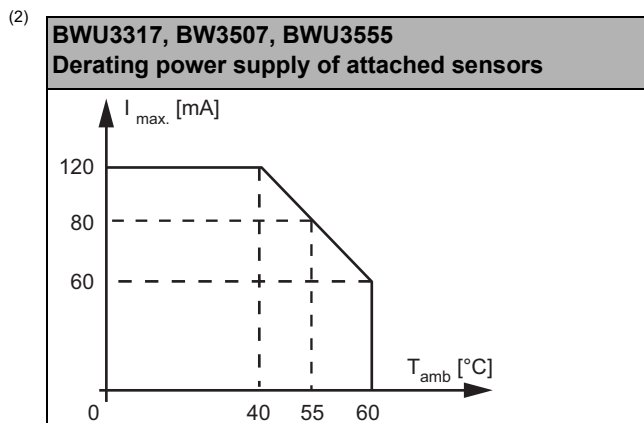
(7) The module is not suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors cannot be assumed for the connection of the two ASi and AUX potentials.

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.	BWU3555	BW3507	BWU3317	BWU3785	BW3377
<b>General data</b>					
Device type	Input/output				
<b>Connection</b>					
ASi/AUX connection	profile cable and piercing				
Periphery connection	4 x M8 cable sockets, straight, 4 poles	2 x M12-cable sockets, straight, 5 poles	2 x round cable/ connecting wires 0,25 mm <sup>2</sup>	2 x M12-cable sockets, straight, 5 poles	1 x M12 cable socket, straight, 8 poles
M12 wiring <sup>(1)</sup>	Y wiring	-			
Round cable	0,2 m	1 m	1 m (including 0,30 m connecting wires)	X1: 0,25 m, X2: 2 m	1 m
max. allowed tensile strain 10 N					
<b>ASi</b>					
Profile	S-7.A.7 (ID1=7 fixed)		S-7.A.7 (ID1=0 fixed)	S-7.A.7 (ID1=7 fixed)	
Address	1 AB address				
Required Master profile	≥M4				
As of ASi specification	3				
Operating voltage	30 V (18 ... 31.6 V)				
Max. current consumption	165 mA	180 mA	165 mA	45 mA	
Max. current consumption without sensor/ actuator supply	45 mA	60 mA	45 mA		
<b>AUX</b>					
Operating voltage	24 V (18 ... 30 V <sub>DC</sub> )				
Max. current consumption	3 A				
<b>Input</b>					
Number	4		3	4	
Power supply	out of ASi		out of AUX		
Power supply of attached sensors	up to +40 °C	120 mA <sup>(2)</sup>		-	
	at +55 °C	80 mA <sup>(2)</sup>			
	at +60 °C	60 mA <sup>(2)</sup>			
Switching threshold	U<5 V (low) U>15 V (high)				
<b>Output</b>					
Number	4				
Power supply	out of AUX				
Max. output current	up to +40 °C	1 A per output, $\sum$ (Out) ≤3 A <sup>(3)</sup>			
	at +55 °C	1 A per output, $\sum$ (Out) ≤2 A <sup>(3)</sup>			
	at +60 °C	1 A per output, $\sum$ (Out) ≤1,5 A <sup>(3)</sup>			
<b>Display</b>					
LED ASi/FLT (red/green)	green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault <sup>(4)</sup> off: no ASi voltage				
LED AUX (green)	on: 24 V <sub>DC</sub> AUX off: no 24 V <sub>DC</sub> AUX				
LEDs I1 ... In (yellow)	state of inputs I1 ... I4		state of inputs I1 ... I3	state of inputs I1 ... I4	
LED O1 ... On (yellow)	state of outputs O1 ... O4				

Article No.	BWU3555	BW3507	BWU3317	BWU3785	BW3377
<b>Environment</b>					
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529				
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes <sup>(5)</sup>	no <sup>(8)</sup>	yes <sup>(9)</sup>	yes <sup>(10)</sup>	yes <sup>(11)</sup>
Operating altitude	max. 2000 m				
Ambient temperature	-30 °C ... +60 °C <sup>(2)(3)(6)</sup>				
Storage temperature	-25 °C ... +85 °C				
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)				
Pollution degree	2				
Protection category	IP67 <sup>(7)</sup>				
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude				
Insulation voltage	≥500 V				
Weight	100 g				
Dimensions (W / H / D) in mm	60 / 45 / 35				

- (1) **M12 wiring:**  
**Single wiring:** 1 input or output per connection.  
**Y wiring:** 2 inputs or outputs per connection.  
**Mixed wiring:** 1 input and 1 output per connection.



- (4) **see table "Peripheral fault indication"**
- (5) BWU3555 from Ident. No. 16991; The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.
- (6) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.
- (7) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67

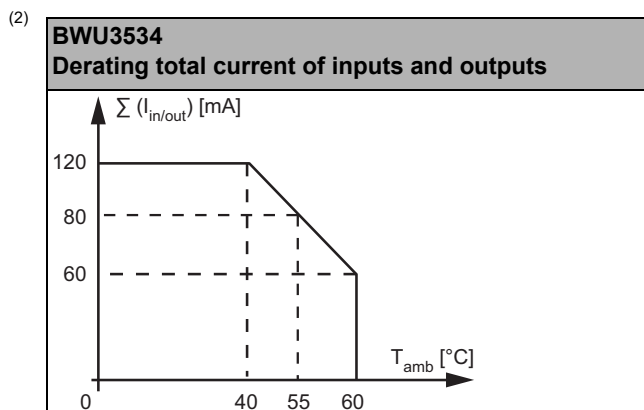


- (8) The module is not suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors cannot be assumed for the connection of the two ASi and AUX potentials.  
If the module is supplied from an unswitched AUX cable, this has no influence on the safety consideration 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.
- (9) BWU3317 from Ident. No. 16991; The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.
- (10) The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.
- (11) BWU3377 from Ident. No. 18465; The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.

Article No.	BWU3534		BWU3414	
<b>General data</b>				
Device type	Input/output			
<b>Connection</b>				
ASi/AUX connection	profile cable and piercing			
Periphery connection	1 x M12 cable socket, straight, 5 poles + 1 x M12 cable socket, angled, 5 poles	8 x push in terminals; wire section flexible (wire end ferrule without plastic sleeve): min. 0,2 mm <sup>2</sup> ; max. 0,5 mm <sup>2</sup> / AWG20		
M12 wiring <sup>(1)</sup>	-			
Round cable	0,3 m	-		
	max. allowed tensile strain 10 N			
<b>ASi</b>				
Profile	S-7.A.7 (ID1=7 fixed)	S-7.A.E (ID1=7 default)		
Address	1 AB address			
Required Master profile	≥M4	≥M3		
As of ASi specification	3	2.1		
Operating voltage	30 V (18 ... 31.6 V)			
Max. current consumption	165 mA	35 mA		
Max. current consumption without sensor/ actuator supply	45 mA	35 mA		
<b>AUX</b>				
Operating voltage	-	24 V (18 ... 30 V <sub>DC</sub> )		
Max. current consumption	-	1 A		
<b>Input</b>				
Number	1		3	
Power supply	out of ASi		out of AUX	
Power supply of attached sensors	up to +40 °C	120 mA, $\sum (In/Out) \leq 120 \text{ mA}^{(2)}$		$\sum (In/Out) 1 \text{ A}$
	at +55 °C	80 mA, $\sum (In/Out) \leq 80 \text{ mA}^{(2)}$		
	at +60 °C	60 mA, $\sum (In/Out) \leq 60 \text{ mA}^{(2)}$		
Switching threshold	U<5 V (low) U>15 V (high)			
<b>Output</b>				
Number	4		1	
Power supply	aus ASi		out of AUX	
Max. output current	up to +40 °C	120 mA, $\sum (In/Out) \leq 120 \text{ mA}^{(2)}$		250 mA per output $\sum (In/Out) 1 \text{ A}$
	at +55 °C	80 mA, $\sum (In/Out) \leq 80 \text{ mA}^{(2)}$		
	at +60 °C	60 mA, $\sum (In/Out) \leq 60 \text{ mA}^{(2)}$		

Article No.	BWU3534	BWU3414
<b>Display</b>		
LED ASi/FLT (red/green)	green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault <sup>(3)</sup> off: no ASi voltage	
LED AUX (green)	–	on: 24 V <sub>DC</sub> AUX off: no 24 V <sub>DC</sub> AUX
LEDs I1 ... In (yellow)	state of input I1	state of inputs I1 ... I3
LED O1 ... On (yellow)	state of outputs O1 ... O4	state of output O1
<b>Environment</b>		
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529	
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes <sup>(4)</sup>	no <sup>(7)</sup>
Operating altitude	max. 2000 m	
Ambient temperature	-30 °C ... +60 °C <sup>(2) (5)</sup>	-30 °C ... +60 °C (no condensation permitted)
Storage temperature	-25 °C ... +85 °C	
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)	
Pollution degree	2	
Protection category	IP67 <sup>(6)</sup>	IP20
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude	
Insulation voltage	≥500 V	
Weight	100 g	50 g
Dimensions (W / H / D) in mm	60 / 45 / 35	60 / 45 / 19

- (1) **M12 wiring:**  
**Single wiring:** 1 input or output per connection.  
**Y wiring:** 2 inputs or outputs per connection.  
**Mixed wiring:** 1 input and 1 output per connection.

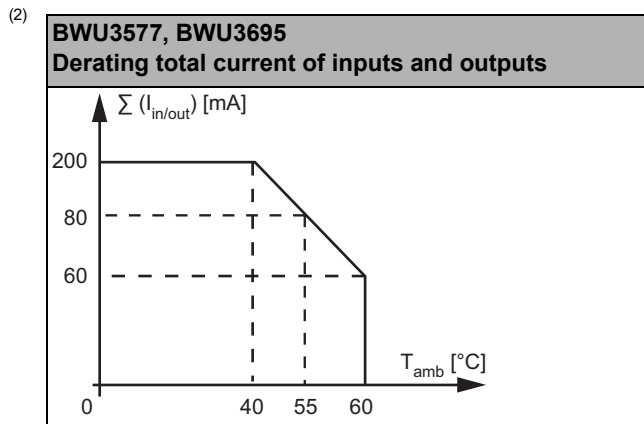


- (3) **see table "Peripheral fault indication"**
- (4) The module is suitable for use in passively safe paths as it has no connection to an AUX potential.
- (5) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.
- (6) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67
- (7) 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.	BWU3577		BWU3695	
<b>General data</b>				
Device type	input/output			
<b>Connection</b>				
ASi/AUX connection	profile cable and piercing			
Periphery connection	6 x M8 cable sockets, straight, 4 poles		2 x M12 cable sockets, straight, 5 poles (inputs) + 2 x M8 cable sockets, straight, 3 poles (outputs)	
M12 wiring <sup>(1)</sup>	-			
Round cable	I: 0,15 m, O: 0,50 m		I: 0,20 m O: 0,40 m	
	max. allowed tensile strain 10 N			
<b>ASi</b>				
Profile	S-7.A.7 (ID1=7 fixed)		S-7.A.E (ID1=7 default)	
Address	1 AB address			
Required Master profile	≥M4		≥M3	
As of ASi specification	3		2.1	
Operating voltage	30 V (18 ... 31.6 V)			
Max. current consumption	245 mA			
Max. current consumption without sensor/ actuator supply	45 mA			
<b>Input</b>				
Number	4		2	
Power supply	out of ASi			
Power supply of attached sensors	up to +40 °C	200 mA, $\sum (In/Out) \leq 200 \text{ mA}^{(2)}$		
	at +55 °C	80 mA, $\sum (In/Out) \leq 80 \text{ mA}^{(2)}$		
	at +60 °C	60 mA, $\sum (In/Out) \leq 60 \text{ mA}^{(2)}$		
Switching threshold	U < 5 V (low) U > 15 V (high)			
<b>Output</b>				
Number	2			
Power supply	out of ASi			
Max. output current	up to +40 °C	200 mA, $\sum (In/Out) \leq 200 \text{ mA}^{(2)}$		
	at +55 °C	80 mA, $\sum (In/Out) \leq 80 \text{ mA}^{(2)}$		
	at +60 °C	60 mA, $\sum (In/Out) \leq 60 \text{ mA}^{(2)}$		
<b>Display</b>				
LED ASi/FLT (red/green)	green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault <sup>(3)</sup> off: no ASi voltage			
LEDs I1 ... In (yellow)	state of inputs I1 ... I4		state of inputs I1 ... I2	
LED O1 ... On (yellow)	state of outputs O1, O2			

Article No.	BWU3577	BWU3695
<b>Environment</b>		
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529	
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes <sup>(4)</sup>	
Operating altitude	max. 2000 m	
Ambient temperature	-30 °C ... +60 °C <sup>(2)(5)</sup>	
Storage temperature	-25 °C ... +85 °C	
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)	
Pollution degree	2	
Protection category	IP67 <sup>(6)</sup>	
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude	
Insulation voltage	≥500 V	
Weight	100 g	
Dimensions (W / H / D) in mm	60 / 45 / 35	

- (1) **M12 wiring:**  
**Single wiring:** 1 input or output per connection.  
**Y wiring:** 2 inputs or outputs per connection.  
**Mixed wiring:** 1 input and 1 output per connection.

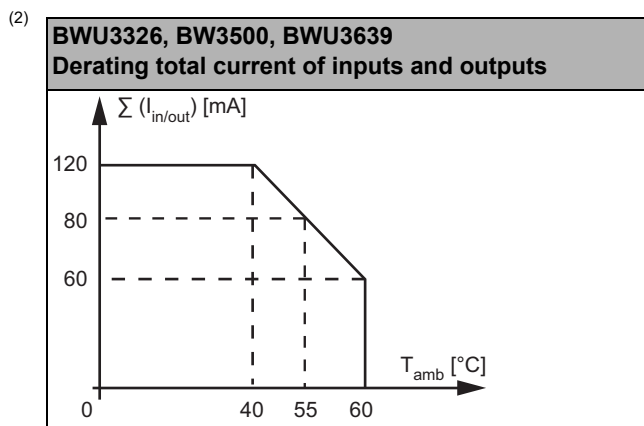


- (3) **see table "Peripheral fault indication"**
- (4) The module is suitable for use in passively safe paths as it has no connection to an AUX potential.
- (5) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.
- (6) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67

Article No.	BWU3326	BW3500	BWU3606	BWU3639	BWU3400
<b>General data</b>					
Device type	input/output				
<b>Connection</b>					
ASi/AUX connection	profile cable and piercing				
Periphery connection	2 x round cable/ connecting wires 0,25 mm <sup>2</sup>	1 x round cable/ connecting wires 0,25 mm <sup>2</sup>	1 x M12 cable socket, angled, 8 poles	1 x M12 cable socket, straight, 8 poles	
M12 wiring <sup>(1)</sup>	-				
Round cable	1 m (including 0,30 m connecting wires)	5 m	2 m	0,3 m	1 m
	max. allowed tensile strain 10 N				
<b>ASi</b>					
Profile	S-7.A.7 (ID1=7 fixed)		S-7.A.0 (ID1=7 default)	S-7.A.E (ID1=7 default)	
Address	1 AB address				
Required Master profile	≥M4			≥M3	
As of ASi specification	3			2.1	
Operating voltage	30 V (18 ... 31.6 V)				
Max. current consumption	200 mA	165 mA	245 mA	165 mA	90 mA
Max. current consumption without sensor/ actuator supply	80 mA	45 mA	45 mA	45 mA	40 mA
<b>Input</b>					
Number	4		1	2	
Power supply	out of ASi				
Power supply of attached sensors	up to +40 °C	120 mA, ∑ (In/Out) ≤120 mA <sup>(2)</sup>	200 mA, ∑ (In/Out) ≤200 mA <sup>(7)</sup>	120 mA, ∑ (In/Out) ≤120 mA <sup>(2)</sup>	50 mA ∑ (In/Out) ≤50 mA
	at +55 °C	80 mA, ∑ (In/Out) ≤80 mA <sup>(2)</sup>	80 mA, ∑ (In/Out) ≤80 mA <sup>(8)</sup>	80 mA, ∑ (In/Out) ≤80 mA <sup>(2)</sup>	
	at +60 °C	60 mA, ∑ (In/Out) ≤60 mA <sup>(2)</sup>	60 mA, ∑ (In/Out) ≤60 mA <sup>(8)</sup>	60 mA, ∑ (In/Out) ≤60 mA <sup>(2)</sup>	-
Switching threshold	U<5 V (low) U>15 V (high)				
<b>Output</b>					
Number	4		3	2	
Power supply	out of ASi				
Max. output current	up to +40 °C	120 mA, ∑ (In/Out) ≤120 mA <sup>(2)</sup>	200 mA, ∑ (In/Out) ≤200 mA <sup>(7)</sup>	120 mA, ∑ (In/Out) ≤120 mA <sup>(2)</sup>	50 mA ∑ (In/Out) ≤50 mA
	at +55 °C	80 mA, ∑ (In/Out) ≤80 mA <sup>(2) (7)</sup>			
	at +60 °C	60 mA, ∑ (In/Out) ≤60 mA <sup>(2) (7)</sup>			-
<b>Display</b>					
LED ASi/FLT (red/green)	green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault <sup>(3)</sup> off: no ASi voltage				
LEDs I1 ... In (yellow)	state of inputs I1 ... I4			state of input I1	state of inputs I1, I2
LED O1 ... On (yellow)	state of outputs O1 ... O4			state of outputs O1 ... O3	state of outputs O1, O2

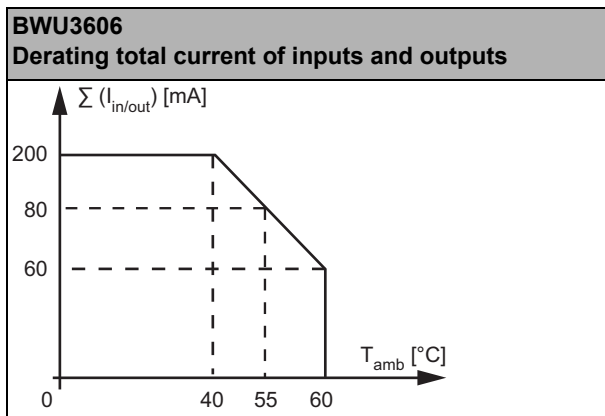
Article No.	BWU3326	BW3500	BWU3606	BWU3639	BWU3400
<b>Environment</b>					
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529				
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes <sup>(4)</sup>				
Operating altitude	max. 2000 m				
Ambient temperature	-30 °C ... +60 °C <sup>(2)(5)(7)</sup>				-30 °C ... +55 °C <sup>(5)</sup>
Storage temperature	-25 °C ... +85 °C				
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)				plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)
Pollution degree	2				
Protection category	IP67 <sup>(6)</sup>				
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude				
Insulation voltage	≥500 V				
Weight	100 g				
Dimensions (W / H / D) in mm	60 / 45 / 35				60 / 45 / 19

- (1) **M12 wiring:**  
**Single wiring:** 1 input or output per connection.  
**Y wiring:** 2 inputs or outputs per connection.  
**Mixed wiring:** 1 input and 1 output per connection.



- (3) **see table "Peripheral fault indication"**
- (4) The module is suitable for use in passively safe paths as it has no connection to an AUX potential.
- (5) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.
- (6) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67

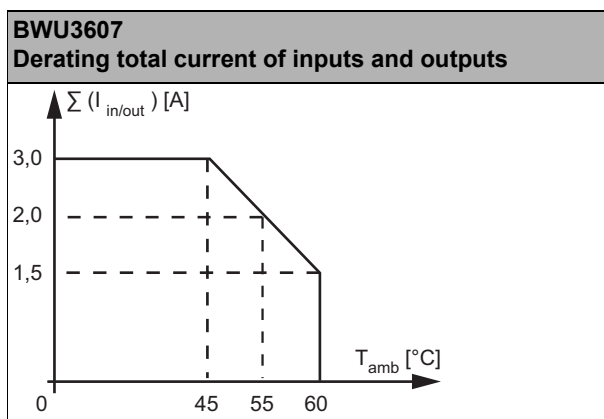
(7)



<b>Article No.</b>		<b>BWU3607</b>
<b>General data</b>		
Device type		input/output
<b>Connection</b>		
ASi/AUX connection		profile cable and piercing
Periphery connection		1 x round cable/connecting wires 0,25 mm <sup>2</sup>
Round cable		3 m (including 0,10 m connecting wires) max. allowed tensile strain 10 N
<b>ASi</b>		
Profile		S-7.A.7 (ID1=7 fixed)
Address		1 AB address
Required Master profile		≥M4
As of ASi specification		3
Operating voltage		30 V (18 ... 31.6 V)
Max. current consumption		45 mA
Max. current consumption without sensor/ actuator supply		45 mA
<b>AUX</b>		
Operating voltage		24 V (18 ... 30 V <sub>DC</sub> )
Max. current consumption		3 A
<b>Input</b>		
Number		2
Power supply		out of AUX
Power supply of attached sensors	up to +45 °C	Σ(In/Out) ≤ 3 A <sup>(1)</sup>
	at +55 °C	Σ(In/Out) ≤ 2 A <sup>(1)</sup>
	at +60 °C	Σ(In/Out) ≤ 1,5 A <sup>(1)</sup>
Switching threshold		U < 5 V (low) U > 15 V (high)
<b>Output</b>		
Number		2
Power supply		out of AUX
Max. output current	up to +45 °C	1 A Σ(In/Out) ≤ 3 A <sup>(1)</sup>
	at +55 °C	1 A Σ(In/Out) ≤ 2 A <sup>(1)</sup>
	at +60 °C	1 A Σ(In/Out) ≤ 1,5 A <sup>(1)</sup>

<b>Article No.</b>	<b>BWU3607</b>
<b>Display</b>	
LED ASI/FLT (red/green)	green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault <sup>(2)</sup> off: no ASi voltage
LED AUX (green)	on: 24 V <sub>DC</sub> AUX off: no 24 V <sub>DC</sub> AUX
LEDs I1 ... In (yellow)	state of inputs I1, I2
LED O1 ...On (yellow)	state of outputs O1, O2
<b>Environment</b>	
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes <sup>(3)</sup>
Operating altitude	max. 2000 m
Ambient temperature	-30 °C ... +60 °C <sup>(1)</sup> <sup>(4)</sup>
Storage temperature	-25 °C ... +85 °C
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)
Pollution degree	2
Protection category	IP67 <sup>(5)</sup>
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms, 10 ... 55 Hz, 0,5 mm amplitude
Insulation voltage	≥500 V
Weight	100 g
Dimensions (W / H / D) in mm	60 / 45 / 35

(1)



(2) see table "Peripheral fault indication"

(3) The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.

(4) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

(5) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67.

Article No.	BWU3342	BW3300	BWU3487	BWU4087
<b>General data</b>				
Device type	output			



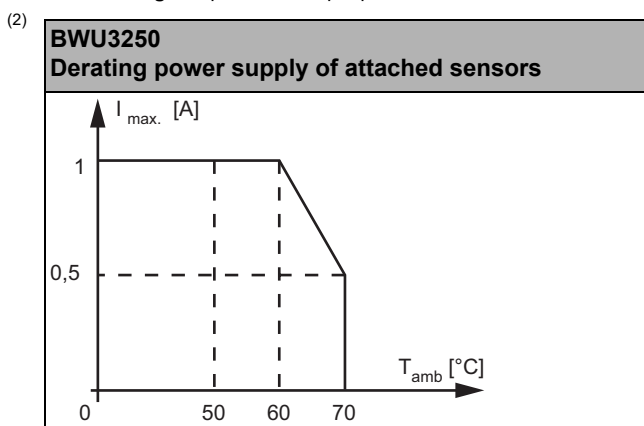
Article No.	BWU3342	BW3300	BWU3487	BWU4087
<b>Connection</b>				
ASI/AUX connection	profile cable and piercing			
Periphery connection	8 x push in terminals; wire section flexible (wire end ferrule without plastic sleeve): min. 0,2 mm <sup>2</sup> ; max. 0,5 mm <sup>2</sup> /AWG20	1 x round cable/ connecting wires 0,25 mm <sup>2</sup>		1 x M12 cable socket, straight, 5 poles
Round cable	–	1 m	5 m	2 m
max. allowed tensile strain 10 N				
<b>ASI</b>				
Profile	S-7.A.7 (ID1=7 fixed)			
Address	1 AB address			
Required Master profile	≥M4			
As of ASi specification	3.0			
Operating voltage	30 V (18 ... 31.6 V)			
Max. current consumption	35 mA			
Max. current consumption without sensor/ actuator supply	35 mA			
<b>AUX</b>				
Operating voltage	24 V (18 ... 30 V <sub>DC</sub> )			
Max. current consumption	1 A			
<b>Output</b>				
Number	4			
Power supply	out of AUX			
Max. output current	up to +50 °C	250 mA per output, ∑ (Out) 1 A		
	at +60 °C			
	at +70 °C			
<b>Display</b>				
LED ASI/FLT (red/green)	green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault <sup>(1)</sup> off: no ASi voltage			
LED AUX (green)	on: 24 V <sub>DC</sub> AUX off: no 24 V <sub>DC</sub> AUX			
LED O1 ... On (yellow)	state of outputs O1 ... O4			
<b>Environment</b>				
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529			
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	no <sup>(2)</sup>			
Operating altitude	max. 2000 m			
Ambient temperature	-30 °C ... +70 °C <sup>(3)</sup>			
Storage temperature	-25 °C ... +85 °C			
Housing	plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)			
Pollution degree	2			
Protection category	IP20	IP67 <sup>(4)</sup>		
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude			
Insulation voltage	≥ 500 V			
Weight	50 g	100 g		
Dimensions (W / H / D) in mm	60 / 45 / 19			

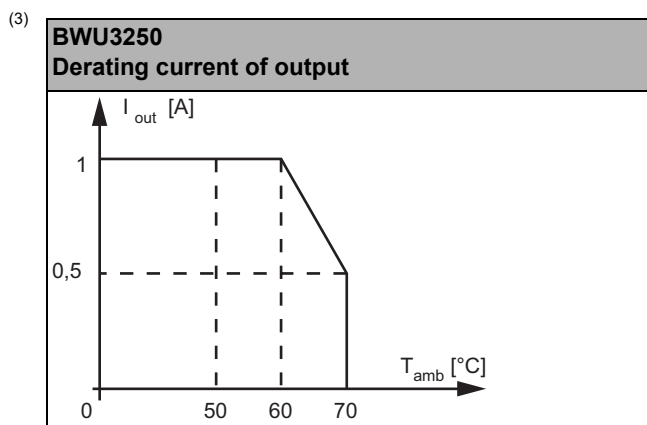
- (1) see table "Peripheral fault indication"
- (2) The module is not suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors cannot be assumed for the connection of the two ASi and AUX potentials.  
If the module is supplied from an unswitched AUX cable, this 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.
- (3) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.
- (4) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67

Article No.	BWU3250	BWU3497	BWU3628	BWU3602
<b>General data</b>				
Device type	input/output			
<b>Connection</b>				
ASi/AUX connection	profile cable and piercing			
Periphery connection	2 x M12 cable sockets, angled, 5 poles	2 x M12 cable sockets, straight, 5 poles	inputs: 1 x M12 cable sockets, straight, 5 poles + outputs: 1 x round cable / connecting wires 0,34 mm <sup>2</sup>	2 x round cable / connecting wires 0,34 mm <sup>2</sup>
M12 wiring <sup>(1)</sup>	1 x Y wiring+ 1 x mixed wiring	Y wiring		–
Round cable	1 m	0,4 m	I: 0,4 m O: 1,5 m	1 m
allowed tensile strain 10 N				
<b>ASi</b>				
Profile	S-7.A.E (ID1=7 default)			
Address	1 AB address			
Required Master profile	≥M3			
As of ASi specification	2.1			
Operating voltage	30 V (18 ... 31.6 V)			
Max. current consumption	35 mA			
Max. current consumption without sensor/ actuator supply	35 mA			
<b>AUX</b>				
Operating voltage	24 V (18 ... 30 V <sub>DC</sub> )			
Max. current consumption	2 A	1 A		
<b>Input</b>				
Number	2			
Power supply	out of AUX			
Power supply of attached sensors	up to +50 °C	1 A <sup>(2)</sup>	$\Sigma(\text{In/Out}) 1 \text{ A}^{(8)}$	
	at +60 °C			
	at +70 °C	0,5 A <sup>(2)</sup>	$\Sigma(\text{In/Out}) 0,5 \text{ A}^{(8)}$	
Switching threshold	U < 5 V (low) U > 15 V (high)			
<b>Output</b>				
Number	1	2		
Power supply	out of AUX			
Max. output current	up to +50 °C	1 A <sup>(3)</sup>	$\Sigma(\text{In/Out}) 1 \text{ A}^{(8)}$	
	at +60 °C			
	at +70 °C	0,5 A <sup>(3)</sup>	$\Sigma(\text{In/Out}) 0,5 \text{ A}^{(8)}$	

Article No.	BWU3250	BWU3497	BWU3628	BWU3602
<b>Display</b>				
LED ASI/FLT (red/green)	green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault <sup>(4)</sup> off: no ASi voltage			
LED AUX (green)	on: 24 V <sub>DC</sub> AUX off: no 24 V <sub>DC</sub> AUX			
LEDs I1 ... In (yellow)	state of inputs I1, I2			
LED O1 ...On (yellow)	state of output O1	state of outputs O1, O2		
<b>Environment</b>				
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529			
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	no <sup>(5)</sup>	yes <sup>(9)</sup>	yes <sup>(10)</sup>	no <sup>(11)</sup>
Operating altitude	max. 2000 m			
Ambient temperature	-30 °C ... +70 °C <sup>(2)</sup> <sup>(3)</sup> <sup>(6)</sup> <sup>(8)</sup>			
Storage temperature	-25 °C ... +85 °C			
Housing	plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)			
Pollution degree	2			
Protection category	IP67 <sup>(7)</sup>			
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude			
Insulation voltage	≥ 500 V			
Weight	100 g			
Dimensions (W / H / D) in mm	60 / 45 / 19			

- (1) **M12 wiring:**  
**Single wiring:** 1 input or output per connection.  
**Y wiring:** 2 inputs or outputs per connection.  
**Mixed wiring:** 1 input and 1 output per connection.





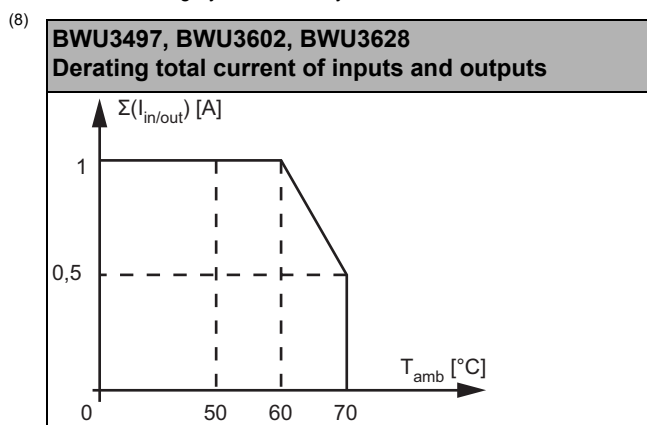
(4) see table "Peripheral fault indication"

(5) 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.

(6) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

(7) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67



(9) BWU3497 from Ident. No. 18444; The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASI and AUX potentials.

(10) BWU3628 from Ident. No. 18323; The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASI and AUX potentials.

(11) 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.

<b>UL-specifications (UL61010)</b>	
<b>BWU3250, BW3300, BWU3317, BWU3326, BWU3342, BWU3349, BWU3374, BW3377, BWU3400, BWU3414, BWU3487, BWU3497, BWU348, BW3500, BW3507, BWU3534, BWU3555, BWU3564, BWU3577, BWU3602, BWU3606, BWU3607, BWU3608, BWU3628, BWU3632, BWU3633, BWU3639, BWU3642, BWU3695, BWU3785, BWU4087</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.

Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU3250	•	•	•
BW3300	-	•	•
BWU3317	•	-	•
BWU3326	•	-	-
BWU3342	-	•	•
BWU3349	•	-	•
BWU3374	•	-	-
BW3377	-	-	•
BWU3400	•	•	-
BWU3414	•	•	•
BWU3487	-	•	•
BWU3497	•	•	•
BWU3498	•	-	•
BW3500	•	-	-
BW3507	•	-	•
BWU3534	•	-	-
BWU3555	•	-	•
BWU3564	•	-	•
BWU3577	•	-	-
BWU3602	•	•	•
BWU3606	•	-	-
BWU3607	-	-	•
BWU3608	-	-	•
BWU3628	•	•	•
BWU3632	•	-	-
BWU3633	•	-	-
BWU3639	•	-	-
BWU3642	•	-	-
BWU3695	•	-	-
BWU3785	-	-	•
BWU4087	-	•	•

Programming	ASi bit assignment			
	D3	D2	D1	D0
	<b>input</b>			
BWU3534, BWU3639	I4	–	–	–
BWU3250, BWU3400, BWU3497, BWU3564, BWU3602, BWU3607, BWU3628, BWU3642, BWU3695	–	–	I2	I1
BWU3414, BWU3785	–	I3	I2	I1
BWU3317, BWU3326, BWU3349, BWU3374, BW3377, BWU3498, BW3500, BW3507, BWU3555, BWU3577, BWU3606, BWU3608, BWU3632, BWU3633	I4	I3	I2	I1
	<b>output</b>			
BWU3250, BWU3414	–	–	–	O1
BWU3400, BWU3497, BWU3577, BWU3602, BWU3607, BWU3628, BWU3695	–	–	O2	O1
BWU3639	–	O3	O2	O1
BW3300, BWU3317, BWU3326, BWU3342, BW3377, BWU3487, BW3500, BW3507, BWU3534, BWU3555, BWU3606, BWU3785, BWU4087	O4	O3	O2	O1

Programming	ASi bit assignment			
	<b>parameter bit</b>			
	P3	P2	P1	P0
BWU3250, BWU3317, BW3377, BWU3414, BWU3497, BW3507, BWU3555, BWU3564, BWU3602, BWU3608, BWU3628, BWU3785	not used	0= on / 1= off (synchronous I/O mode)	0= off / 1= on (peripheral fault, if AUX missing)	0= off / 1= on (Watchdog)
BW3300, BWU3326, BWU3342, BWU3487, BW3500, BWU4087			not used	
BWU3374, BWU3400, BWU3534, BWU3577, BWU3606, BWU3607, BWU3633, BWU3639, BWU3695			0= on / 1= off (data input filter 128 µs)	
BWU3349, BWU3498			0= off / 1= on (peripheral fault)	
BWU3632, BWU3642			not used	

## Pin assignment

Signal name	Explanation
I <sub>x</sub>	digital input x
O <sub>x</sub>	digital output x
24V <sub>ext out</sub>	power supply, out of external voltage, positive pole (AUX, actuator supply)
0V <sub>ext out</sub>	power supply, out of external voltage, negative pole (AUX, actuator supply)
24V <sub>out of ASi</sub>	power supply, out of ASi, positive pole (sensor supply)
0V <sub>out of ASi</sub>	power supply, out of ASi, negative pole (sensor supply)
ASi +, ASi -	connection to ASi bus
n.c. (not connected)	not connected

Connections: round cable/connecting wires												
Article no.	connec.	BN	WH	BU	BK	PK	GY	RD	GN	YE	OG	
BWU3374	X1	24 V out of ASi	I4	0 V <sub>out of ASi</sub>	I3							
	X2	24 V out of ASi	I2	0 V <sub>out of ASi</sub>	I1							
BW3300 / BWU3487	X1	O1	0 V <sub>1 ext.out</sub>	O2	O3	0 V <sub>2 ext.out</sub>	O4					
BWU3317	X1	I1	I2	I3	I4	0 V <sub>1 out of ASi</sub>	24 V out of ASi					
	X2	O1	0 V <sub>2 ext out</sub>	O2	O3	0 V <sub>3 ext out</sub>	O4					
BWU3326	X1	I1	I2	I3	I4	0 V <sub>1 out of ASi</sub>	24 V out of ASi					
	X2	O1	0 V <sub>2 out of ASi</sub>	O2	O3	0 V <sub>3 out of ASi</sub>	O4					
BW3500 / BWU3606	X1	I1	I2	I3	I4	O4	O3	O1	O2	0 V out of ASi	24 V out of ASi	
BWU3602	X1	24 V ext out	I2	0 V ext out	I1							
	X2	24 V ext out	O2	0 V ext out	O1							

Connections: round cable/connecting wires											
Article no.	connec.	BN	WH	BU	BK	PK	GY	RD	GN	YE	OG
BWU3607	X1	24 V ext out	I1	0 V ext out	O1	I2	O2	-	-	-	-
		<p>The reference potential of sensors/actors has to be connected with the reference potential of the active distributor (AUX).</p>									
BWU3608	X1	24 V ext out	-	0 V ext out	I2						
	X3	24 V ext out	-	0 V ext out	I1						
	X4	24 V ext out	-	0 V ext out	I3	-	-	-	-	-	-
	M8 connection	Pin1	Pin2	Pin3	Pin4						
	X2	24 V ext out	n.c.	0 V ext out	I4						
BWU3628	X2	24 V ext out	O2	0 V ext out	O1	-	-	-	-	-	-
	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5					
	X1	24 V ext out	I2	0 V ext out	I1	n.c.					

Connections: M8 cable sockets, straight, 4 poles					
Article no.	M8 connection	Pin1	Pin2	Pin3	Pin4
BWU3555	X1	24V out of ASI	I4	0V out of ASI	I3
	X2	n.c.	O4	0 V ext out	O3
	X3	24V out of ASI	I2	0V out of ASI	I1
	X4	n.c.	O2	0 V ext out	O1
BWU3577	X1	24 V out of ASI	n.c.	0 V out of ASI	I3
	X2	24 V out of ASI	n.c.	0 V out of ASI	I4
	X3	24 V out of ASI	n.c.	0 V out of ASI	I1
	X4	24 V out of ASI	n.c.	0 V out of ASI	I2
	X5	n.c.	n.c.	0 V out of ASI	O1
	X6	n.c.	n.c.	0 V out of ASI	O2



Connections: M8, M12 cable sockets						
Article no.	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5
BW3695	X1	24V out of ASi	n.c.	0V out of ASi	I1	n.c.
	X3	24V out of ASi	n.c.	0V out of ASi	I2	n.c.
	M8 connection	Pin1	-	Pin3	Pin4	-
	X2	n.c.	-	0V out of ASi	O1	-
	X4	n.c.	-	0V out of ASi	O2	-

Connections: M12 cable sockets, straight, 5 poles						
Article no.	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5
BWU3633	X1	24V out of ASi	n.c.	0V out of ASi	I3	n.c.
	X2	24V out of ASi	n.c.	0V out of ASi	I4	n.c.
	X3	24V out of ASi	n.c.	0V out of ASi	I1	n.c.
	X4	24V out of ASi	n.c.	0V out of ASi	I2	n.c.

Connections: M12 cable sockets, straight/angled, 5 poles						
Article no.	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5
BWU3250	X1	24 V <sub>ext out</sub>	I2	0 V <sub>ext out</sub>	I1	n.c.
	X2	24 V <sub>ext out</sub>	O1	0 V <sub>ext out</sub>	I1	n.c.
BW3507	X1	I1	I2	I3	I4	24 V out of ASi
	X2	O1	0 V ext out	O2	O3	O4
BWU3497	X1	24 V <sub>ext out</sub>	I2	0 V <sub>ext out</sub>	I1	n.c.
	X2	24 V <sub>ext out</sub>	O2	0 V <sub>ext out</sub>	O1	n.c.
BWU3785	X1	24 V out of AUX	I2	0 V <sub>ext out</sub>	I1	I3
	X2	O2	O3	0 V <sub>ext out</sub>	O1	O4

Connections: M12 cable sockets, straight/angled, 5 poles									
Article no.	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5			
BWU3498	X1	24 V ext out	I2	0 V ext out	I1	n.c.			
	X2	24 V ext out	I4	0 V ext out	I3	n.c.			
BWU3534	X1 (straight)	24 V out of ASI	O4	0 V out of ASI	I4	n.c.			
	X2 (angled)	O3	O1	0 V out of ASI	O2	n.c.			
BWU3642	X1	24 V out of ASI	I2	0 V out of ASI	I1	n.c.			
BWU3564	X1	24 V ext out	I2	0 V ext out	I1	n.c.			
BWU4087	X1	O2	O3	0 V ext out	O1	O4			
							<p>The reference potential of sensors/actors has to be connected with the reference potential of the active distributor (AUX).</p>		
BWU3632	X1	24V out of ASI	n.c.	0V out of ASI	I2	n.c.			
	X2	24V out of ASI	n.c.	0V out of ASI	I4	n.c.			
	X3	24V out of ASI	n.c.	0V out of ASI	I1	n.c.			
	X4	24V out of ASI	n.c.	0V out of ASI	I3	n.c.			

Connections: M12 cable sockets, straight, 8 poles									
Article no.	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6	Pin7	Pin8
BWU3400	X1	n.c.	24 V out of ASI	0 V out of ASI	I1	I2	O1	O2	n.c.

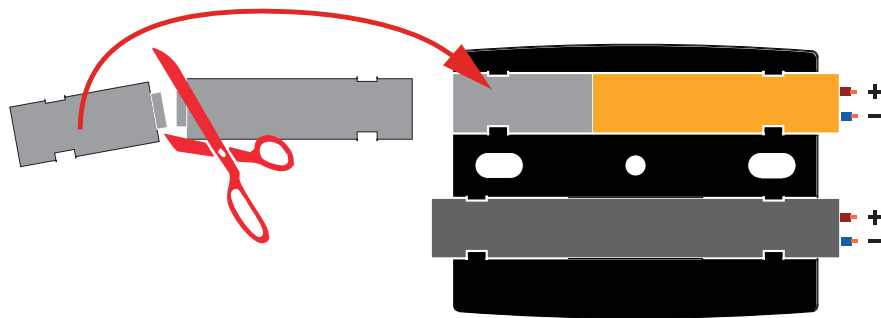
Connections: M12 cable sockets, straight/angled, 8 poles										
Article no.	connection	Pin1 (WH)	Pin2 (BN)	Pin3 (GN)	Pin4 (YE)	Pin5 (GY)	Pin6 (PK)	Pin7 (BU)	Pin8 (RD)	
BW3377	X1	I1	I2	I3	I4	O1	O2	O3	O4	
	The reference potential of sensors/actors has to be connected with the reference potential of the active distributor (AUX).									
BWU3639	X1	I4	24 V out of ASi	O2	O1	n.c.	n.c.	0V	O3	

Connections: push in terminals									
Article no.	X1.1	X1.2	X1.3	X1.4	X1.5	X1.6	X1.7	X1.8	
BWU3349	I1	I2	I3	I4	24 V <sub>1</sub> ext.out	0 V <sub>1</sub> ext.out	24 V <sub>2</sub> ext.out	0 V <sub>2</sub> ext.out	
BWU3342	O1	0 V 1 ext out	O2	0 V <sub>2</sub> ext out	O3	0 V <sub>3</sub> ext out	O4	0 V <sub>4</sub> ext out	
BWU3414	I1	I2	I3	O1	24 V <sub>1</sub> ext.out	0 V <sub>1</sub> ext.out	24 V <sub>2</sub> ext.out	0 V <sub>2</sub> ext.out	

### Line termination with sealing profile



max. IP54



### Accessories:

- Sealing profile IP67 (IDC plug), 60 mm (art. no. BW3282)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4925)
- Bihl+Wiedemann Safety Suite License - Safety Software for Configuration, Diagnostics and Commissioning (art. no. BW2916)