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Digital Modules ASi, IP67, M12

2 x 2 connectors for profile cable

**2 color LEDs per output,
state (yellow), overload (red) (optional)**

(Figure similar)

Figure	Type	Inputs digital	Outputs digital	M12 connection (1)	Input voltage (sensor supply) (2)	Output voltage (actuator supply) (3)	ASi connection (4)	ASi address (5)	Max. output current	Art. no.
	IP67, 4 x M12	2	2 x electronic	Y	out of ASi	out of AUX	ASi profile cable	1 AB slave	1 A per output	**BWU3456**
	IP67, 4 x M12	2	2 x electronic, special ASi bit assignment	Y	out of ASi	out of AUX	ASi profile cable	1 AB slave	1 A per output	**BWU3539**
	IP67, 4 x M12	2	2 x electronic, special ASi bit assignment	Y	out of ASi	out of AUX	ASi profile cable	1 single slave	1 A per output	**BWU3775**
	IP67, 4 x M12	2	2 x electronic	single	out of ASi	out of AUX	ASi profile cable	1 AB slave	1 A per output	**BWU3141**
	IP67, 4 x M12	2	2 x electronic	single	out of ASi	out of AUX	ASi via M12	1 AB slave	1 A per output	**BWU3517**
	IP67, 4 x M12	4	–	Y	out of ASi	–	ASi profile cable	1 AB slave	–	**BWU2552**
	IP67, 4 x M12	4	–	Y	out of ASi	–	ASi via M12	1 AB slave	–	**BWU3077**
	IP67, 4 x M12	4	–	single	out of ASi	–	ASi profile cable	1 AB slave	–	**BWU2620**
	IP67, 4 x M12	4	–	single	out of ASi	–	ASi profile cable	1 AB slave S-0.A.7.0	–	**BWU3556**
	IP67, 4 x M12	4	–	single	out of ASi	–	ASi via M12	1 AB slave	–	**BWU3457**
	IP67, 4 x M12	4	–	single	out of AUX	–	ASi profile cable	1 AB slave	–	**BWU2725**
	IP67, 4 x M12	4	2 x electronic	mixed	out of AUX	out of AUX	ASi profile cable	1 AB slave	1 A per output	**BWU2767**
	IP67, 4 x M12	4	4 x electronic	mixed	out of ASi	out of ASi	ASi profile cable	1 AB slave	120 mA per output	**BWU3240**
	IP67, 4 x M12	4	4 x electronic	mixed	out of AUX	out of AUX	ASi profile cable	1 AB slave	500 mA per output	**BWU2547**
	IP67, 4 x M12	4	4 x electronic	mixed (inputs/outputs swapped)	out of AUX	out of AUX	ASi profile cable	1 AB slave	500 mA per output	**BWU3887**
	IP67, 4 x M12	4	4 x electronic	Y	out of ASi	out of AUX	ASi profile cable	1 AB slave	500 mA per output	**BWU2487**
	IP67, 4 x M12	4	4 x electronic	Y	out of AUX	out of AUX	ASi profile cable	1 AB slave	500 mA per output	**BWU3032**
	IP67, 4 x M12	4	3 x electronic	Y	out of ASi	out of AUX	ASi profile cable	1 AB slave	500 mA per output	**BWU3375**
	IP67, 4 x M12	–	4 x electronic	Y	–	out of AUX	ASi profile cable	1 single slave	1 A per output	**BWU2713**
	IP67, 4 x M12	–	4 x electronic	Y	–	out of AUX	ASi profile cable	1 AB slave	1 A per output	**BWU2594**
	IP67, 4 x M12	–	4 x electronic	Y	–	out of AUX, 2A per output	ASi profile cable	1 AB slave	2 A per output	**BWU2728**

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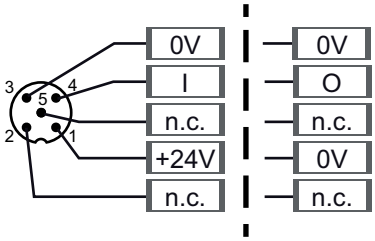
Digital Modules ASi, IP67, M12

Figure	Type	Inputs digital	Outputs digital	M12 connection (1)	Input voltage (sensor supply) (2)	Output voltage (actuator supply) (3)	ASi connection (4)	ASi address (5)	Max. output current	Art. no.
	IP67, 8 x M12	4	4 x electronic	Y	out of ASi	out of AUX	ASi profile cable	1 AB slave	1 A per output	**BWU2626**
	IP67, 8 x M12	4	4 x electronic	Y	out of ASi	out of AUX	ASi profile cable	1 AB slave	2 A per output	**BWU3426**
	IP67, 8 x M12	4	4 x electronic	single	out of ASi	out of AUX	ASi profile cable	1 AB slave	1 A per output	**BWU2617**
	IP67, 8 x M12	4	4 x electronic	single	out of ASi	out of AUX	ASi profile cable	1 single slave	1 A per output	**BWU2684**
	IP67, 8 x M12	4	4 x electronic	single	out of AUX	out of AUX	ASi profile cable	1 AB slave	1 A per output	**BWU2810**
	IP67, 8 x M12	4	4 x electronic	Y	out of AUX	out of AUX	ASi profile cable	1 AB slave	1 A per output	**BWU3510**
	IP67, 8 x M12	4	4 x electronic	single	out of AUX	out of AUX	ASi using M12	1 AB slave	1 A per output	**BWU2645**
	IP67, 8 x M12	4	4 x electronic	single	out of ASi	out of AUX, 2A per output	ASi profile cable	1 single slave	2 A per output	**BWU3540**
	IP67, 8 x M12	4	3 x electronic	single	out of ASi	out of AUX, 2A per output	ASi profile cable	1 AB slave	2 A per output	**BWU3496**
	IP67, 8 x M12	8	–	Y	out of AUX	–	ASi profile cable	2 AB slaves	–	**BWU2770**
	IP67, 8 x M12	8	–	Y	out of ASi	–	ASi profile cable	2 AB slaves	–	**BWU2651**
	IP67, 8 x M12	8	–	single	out of ASi	–	ASi profile cable	2 AB slaves	–	**BWU2983**
	IP67, 8 x M12	8	8 x electronic	Y	out of ASi	out of AUX	ASi profile cable	2 AB slaves	1 A per output	**BWU2619**
	IP67, 8 x M12	8	8 x electronic	Y	out of AUX	out of AUX	ASi profile cable	2 AB slaves	1 A per output	**BWU3892**
	IP67, 8 x M12	–	8 x electronic	Y	–	out of AUX	ASi profile cable	2 AB slaves	1 A per output	**BWU2652**

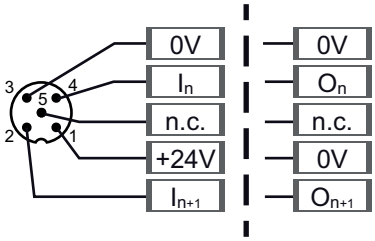
Replacement, ASi Version 2: single slaves (digital) are also working with the first generation ASi masters.

(1) **M12 wiring:** either as a single–wiring, Y–wiring or mixed-wiring.

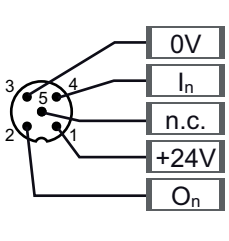
Single-wiring



Y-wiring



Mixed-wiring



(2) **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.

(3) **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

(4) **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).

(5) **ASi address:** 1 AB Slave (max. 62 AB Slaves/ASi network), 2 AB Slaves (max. 31 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.

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Article No.	BWU3077	BWU2552	BWU2620	BWU3556	BWU3457	BWU2725
General data						
Device type	input					
Connection						
ASi/AUX connection	M12 (1)	profile cable and piercing			M12 (1)	profile cable and piercing
Periphery connection	M12, Y-wiring		M12,single-wiring			
Length of connector cable	unlimited (2)					
ASi						
Profile	S-0.A.E (ID1=7 default)			S-0.A.0 (ID1=7 default)	S-0.A.E (ID1=7 default)	S-0.A.E (ID1=7 default)
Address	1 AB slave					
Required Master profile	≥M3					
As of ASi specification	2.1					
Operating voltage	30 V (18 … 31.6 V)					
Max. current consumption	165 mA					45 mA
Max. current consumption without sensor/ actuator supply	45 mA					
AUX						
Operating voltage	–					24 V (18 … 30 V)
Max. current consumption	–					1 A
Input						
Number	4					
Power supply	out of ASi					out of AUX
Sensor supply	short-circuit and overload protected according to EN 61131-2					
Power supply of attached sensors, up to +40 °C	120 mA (3)					max. 1 A
Power supply of attached sensors, at +55 °C	100 mA (3)					
Power supply of attached sensors, at +70 °C	80 mA (3)					
Switching threshold	U<5 V (low) U>15 V (high)					
Display						
LED ASI (green)	on: ASi voltage on flashing: ASi voltage on, but peripheral fault (4) or address 0 off: no ASi voltage					
LED FLT/FAULT (red)	on: slave address 0 or slave offline flashing: peripheral fault (4) off: slave online					
LED AUX (green)	–					on: 24 V_{DC} AUX off: no 24 V_{DC} AUX
LEDs I1 ... In (yellow)	state of inputs I1 ... I4					

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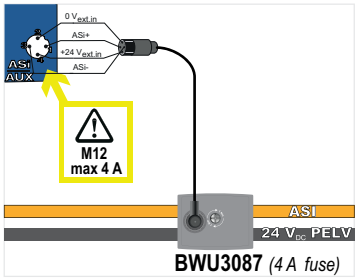
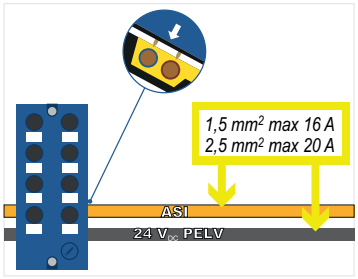
Article No.	BWU3077	BWU2552	BWU2620	BWU3556	BWU3457	BWU2725
Environment						
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529					
Operating altitude	max. 2000 m					
Ambient temperature	-30 °C … +55 °C (up to max. +70 °C) (3) (5)					
Storage temperature	-25 °C … +85 °C					
Housing	plastic, for screw mounting	plastic, for DIN rail mounting			plastic, for screw mounting	plastic, for DIN rail mounting
Pollution degree	2					
Protection category	IP67 (6)					
Tolerable loading referring to humidity	according to EN 61131-2					
Max. tolerable shock load	30*g*, 11 ms, acc. EN 61131-2					
Max. tolerable vibration stress	5 ... 8 Hz 50 mm_{pp}/8 ... 500 Hz 6*g*, acc. EN 61131-2					
Insulation voltage	≥500 V					
Weight	100 g					
Dimensions (W / H / D) in mm	45 / 116,5 / 47,5	45 / 80 / 42			45 / 116,5 / 47,5	45 / 80 / 42

(1) **Line protection:**
If the module is supplied via a M12 connection with A or B coding, it may only be used with a current load of max. 4 A per pin in acc. with IEC 61076-2-101 and IEC 61076-2-109. A fused tap is recommended. There is no such limitation for modules supplied via piercing contacts.

Connection to ASi and AUX via M12



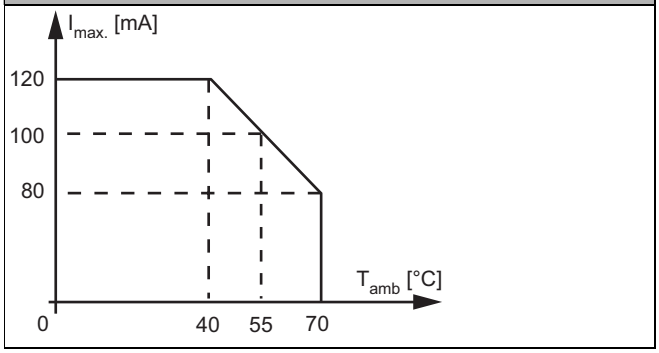
via piercing contacts



(2) Loop resistance ≤150 Ω

(3)

BWU2552, BWU2620, BWU3077, BWU3457, BWU3556
Derating power supply of attached sensors



(4) **See table "Peripheral fault indication"**

(5) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

(6) Protection category IP67 can only be achieved if all open connections are sealed with suitable end caps fulfilling the same protection category.

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Article No.	BWU2770	BWU2651	BWU2983
General data			
Device type	input		
Connection			
ASi/AUX connection	profile cable and piercing		
Periphery connection	M12, Y-wiring		M12, single-wiring
Length of connector cable	unlimited (1)		
ASi			
Profile	slave 1: S-0.A.E (ID1=7 default), slave 2: S-0.A.E (ID1=6 default)		
Address	2 AB slaves		
Required Master profile	≥M3		
As of ASi specification	2.1		
Operating voltage	30 V (18 … 31.6 V)		
Max. current consumption	60 mA	270 mA	
Max. current consumption without sensor/ actuator supply	60 mA	70 mA	
AUX			
Operating voltage	24 V (18 … 30 V)	–	
Max. current consumption	3 A	–	
Input			
Number	4		
Power supply	out of AUX	out of ASi	
Sensor supply	short-circuit and overload protected according to EN 61131-2		
Power supply of attached sensors, up to +40 °C	max. 1 A	200 mA (5)	
Power supply of attached sensors, at +55 °C	max. 1 A	150 mA (3)	
Power supply of attached sensors, at +70 °C	max. 1 A	100 mA (3)	
Switching threshold	U<5 V (low) U>15 V (high)		
Display			
LED ASI/FLT 1 (red/green)	green: slave online red: slave offline yellow/red flashing: address 0 red/green flashing: peripheral fault (2)		
LED ASI/FLT 2 (red/green)	green: slave online red: slave offline yellow/red flashing: address 0 red/green flashing: peripheral fault (4) red flashing: slave 2 is switched off, because slave 1 is offline		
LED AUX (green)	on: 24 V_{DC} AUX off: no 24 V_{DC} AUX	–	
LEDs I1 ... In (yellow)	state of inputs I1 ... I8		
Environment			
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529		
Operating altitude	max. 2000 m		
Ambient temperature	-30 °C … +55 °C (up to max. +70 °C) (3) (5)		
Storage temperature	-25 °C … +85 °C		
Housing	plastic, for screw mounting		
Pollution degree	2		
Protection category	IP67 (4)		
Tolerable loading referring to humidity	according to EN 61131-2		
Max. tolerable shock load	30*g*, 11 ms, acc. EN 61131-2		
Max. tolerable vibration stress	5 ... 8 Hz 50 mm_{pp}/8 ... 500 Hz 6*g*, acc. EN 61131-2		

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Article No.	BWU2770	BWU2651	BWU2983
Insulation voltage	≥500 V		
Weight	200 g		
Dimensions (W / H / D) in mm	60 / 151 / 31		

(1) Loop resistance ≤150 Ω

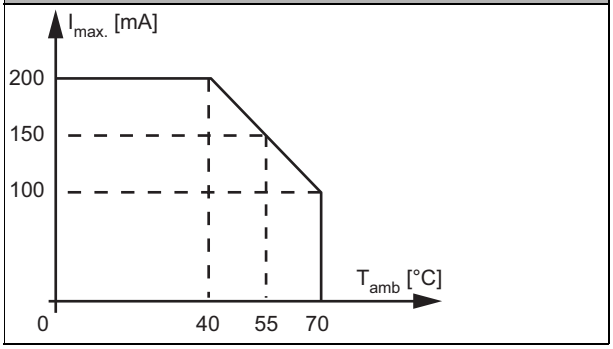
(2) **See table "Peripheral fault indication"**

(3) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

(4) Protection category IP67 can only be achieved if all open connections are sealed with suitable end caps fulfilling the same protection category.

(5)

BWU2651, BWU2983
Derating power supply of attached sensors



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Digital Modules ASi, IP67, M12

Article No.		BWU3775	BWU3539	BWU3456	BWU3141
General data					
Device type		input / output			
Connection					
ASi/AUX Connection		profile cable and piercing			
Periphery connection		M12, Y-wiring			M12, single-wiring
Length of connector cable		unlimited (1)			
ASi					
Profile		S-7.0.E (ID1=F default)	S-7.A.7 (ID1=7 fixed)		
Address		1 single slave	1 AB slave		
Required Master profile		≥M0	≥M4		
As of ASi specification		2.0	3.0		
Operating voltage		30 V (18 … 31.6 V)			
Max. current consumption		165 mA			
Max. current consumption without sensor/ actuator supply		45 mA			
AUX					
Operating voltage		24 V (18 … 30 V)			
Max. current consumption		2 A			
Input					
Number		2			
Power supply		out of ASi			
Sensor supply		short-circuit and overload protected according to EN 61131-2			
Power supply of attached sensors	up to +40 °C	120 mA (2)			
	at +55 °C	90 mA (2)			
	at +70 °C	60 mA (2)			
Switching threshold		U<5 V (low) U>15 V (high)			
Output					
Number		2			
Power supply		out of AUX			
Output		short-circuit and overload protected according to EN 61131-2			
Max. output current	up to +40 °C	1 A per output, ∑(Out) 2 A (3)			
	at +55 °C	1 A per output, ∑(Out) 1,5 A (3)			
	at +70 °C	1 A per output, ∑(Out) 1 A (3)			
Display					
LED ASI (green)		on: ASi voltage on flashing: ASi voltage on, but peripheral fault (4) or address 0 off: no ASi voltage			
LED FLT/FAULT (red)		on: slave address 0 or slave offline flashing: peripheral fault (4) off: slave online			
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX			
LEDs I1, I2 (yellow)		state of inputs I1, I2			
LEDs O1 / O2 ... (yellow /red)		–		yellow: state of outputs O1, O2 red: overload	
LEDs O3 / O4 ... (yellow /red)		yellow: state of outputs O3, O4 red: overload		–	
Environment					
Applied standards		EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529			
Operating altitude		max. 2000 m			
Ambient temperature		-30 °C … +55 °C (2) (3) (5) (up to max. +70 °C)			

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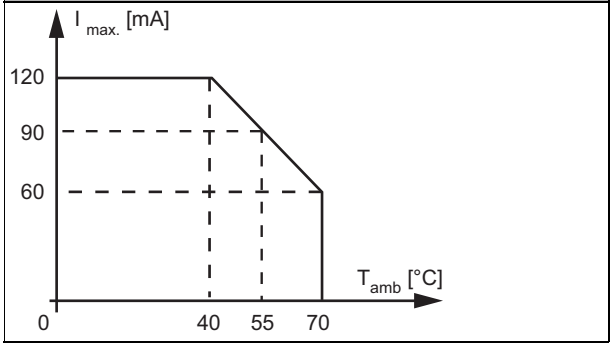
Article No.	BWU3775	BWU3539	BWU3456	BWU3141
Storage temperature	-25 °C … +85 °C			
Housing	plastic, for DIN rail mounting			
Pollution degree	2			
Protection category	IP67 (6)			
Tolerable loading referring to humidity	according to EN 61131-2			
Max. tolerable shock load	30*g*, 11 ms, acc. EN 61131-2			
Max. tolerable vibration stress	5 ... 8 Hz 50 mm_{pp}/8 ... 500 Hz 6*g*, acc. EN 61131-2			
Insulation voltage	≥500 V			
Weight	100 g			
Dimensions (W / H / D) in mm	45 / 80 / 42			

(1) Loop resistance ≤150 Ω

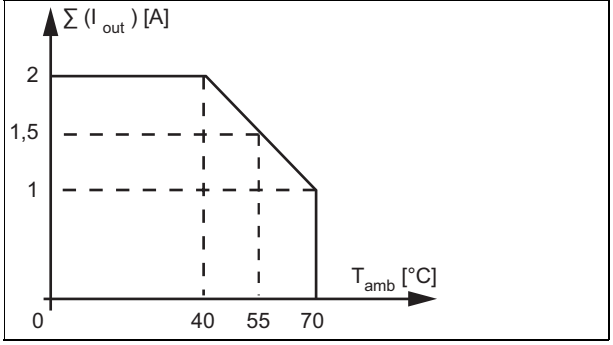
(2)

BWU3141, BWU3456, BWU3539, BWU3775
Derating of power supply of attached sensors



(3)

BWU3141, BWU3456, BWU3539, BWU3775
Derating total current of outputs



(4) **See table "Peripheral fault indication"**

(5) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

(6) Protection category IP67 can only be achieved if all open connections are sealed with suitable end caps fulfilling the same protection category.

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Article No.		BWU2767	BWU2547	BWU3887	BWU3240
General data					
Device type		input / output			
Connection					
ASi/AUX Connection		profile cable and piercing			
Periphery connection		M12, mixed- wiring		M12, mixed- wiring (inputs/outputs swapped)	M12, mixed- wiring
Length of connector cable		unlimited (1)			
ASi					
Profile		S-7.A.E (ID1=7 default)	S-7.A.7 (ID1=7 fixed)		
Address		1 AB slave			
Required Master profile		≥M3	≥M4		
As of ASi specification		3.0			
Operating voltage		30 V (18 … 31.6 V)			
Max. current consumption		35 mA			165 mA
Max. current consumption without sensor/ actuator supply		35 mA			45 mA
AUX					
Operating voltage		24 V (18 … 30 V)			–
Max. current consumption		3 A			–
Input					
Number		4			
Power supply		out of AUX			out of ASi
Sensor supply		short-circuit and overload protected according to EN 61131-2			
Power supply of attached sensors	up to +40 °C	max. 1 A			∑ (In/Out) max.120 mA (8)
	at +55 °C				∑ (In/Out) 90 mA (8)
	at +70 °C				∑ (In/Out) 60 mA (8)
Switching threshold		U<5 V (low) U>15 V (high)			
Output					
Number		2	4		
Power supply		out of AUX			out of ASi
Output		short-circuit and overload protected according to EN 61131-2			
Max. output current	up to +40 °C	1 A per output ∑(Out) 2 A	500 mA per output ∑(Out) 2 A (7)		∑ (In/Out) 120 mA (8)
	at +55 °C		500 mA per output ∑(Out) 1,5 A (7)		∑ (In/Out) 90 mA (8)
	at +70 °C		500 mA per output ∑(Out) 1 A (7)		∑ (In/Out) 60 mA (8)
Display					
LED ASI (green)		on: ASi voltage on flashing: ASi voltage on, but peripheral fault (2) or address 0 off: no ASi voltage			
LED FLT/FAULT (red)		on: slave address 0 or slave offline flashing: peripheral fault (2) off: slave online			
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX			–
LEDs I1 / O1 ... In / On (yellow)		state of inputs/outputs I1 / O1 ...I4 / O4 input **or** output is on (3)			
Environment					
Applied standards		EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529			
Operating altitude		max. 2000 m			
Ambient temperature		-30 °C … +55 °C (4) (5) (7) (8) (up to max. +70 °C)			
Storage temperature		-25 °C … +85 °C			

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Article No.	BWU2767	BWU2547	BWU3887	BWU3240
Housing	plastic, for DIN rail mounting			
Pollution degree	2			
Protection category	IP67 (6)			
Tolerable loading referring to humidity	according to EN 61131-2			
Max. tolerable shock load	30*g*, 11 ms, acc. EN 61131-2			
Max. tolerable vibration stress	5 ... 8 Hz 50 mm_{pp}/8 ... 500 Hz 6*g*, acc. EN 61131-2			
Insulation voltage	≥500 V			
Weight	100 g			
Dimensions (W / H / D) in mm	45 / 80 / 42			

(1) Loop resistance ≤150 Ω

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

(3) **BWU2767:** LEDs I3/O3 and I4/O4 are indicating only the state of inputs I3 and I4 in accordance with the factual input/output assignment.

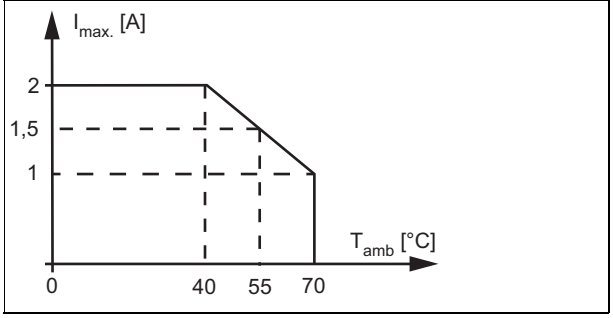
(4) Temperature range up to -30°C from Ident.No. ≥16388 (BWU2767).

(5) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

(6) Protection category IP67 can only be achieved if all open connections are sealed with suitable end caps fulfilling the same protection category.

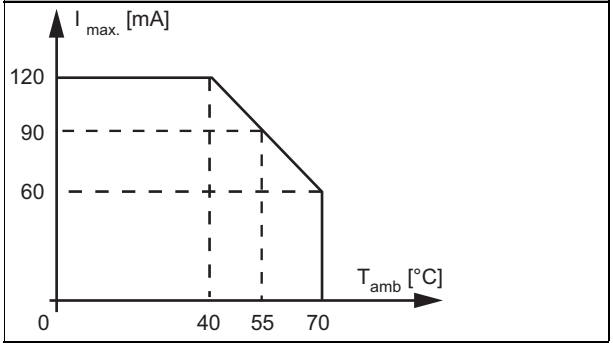
(7)

BWU2547, BWU3887
Derating of output current at sensor supply >120 mA



(8)

BWU3240
Derating of power supply of attached sensors



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Digital Modules ASi, IP67, M12

Article No.		BWU2487	BWU3032	BWU3375	BWU3517
General data					
Device type		input / output			
Connection					
ASi/AUX Connection		profile cable and piercing			M12 (7)
Periphery connection		M12, Y-wiring			M12, single wiring
Length of connector cable		unlimited (1)			
ASi					
Profile		S-7.A.7 (ID1=7 fixed)		S-7.A.0 (ID1=7 default)	S-7.A.7 (ID1=7 fixed)
Address		1 AB slave			
Required Master profile		≥M4		≥M3	≥M4
As of ASi specification		3.0		2.1	3.0
Operating voltage		30 V (18 … 31.6 V)			
Max. current consumption		165 mA	45 mA	165 mA	
Max. current consumption without sensor/ actuator supply		45 mA			
AUX					
Operating voltage		24 V (18 … 30 V)			
Max. current consumption		2 A			
Input					
Number		4			2
Power supply		out of ASi	out of AUX	out of ASi	
Sensor supply		short-circuit and overload protected according to EN 61131-2			
Power supply of attached sensors	up to +40 °C	120 mA (2)	1 A	120 mA (2)	120 mA (8)
	at +55 °C	90 mA (2)		90 mA (2)	90 mA (8)
	at +70 °C	60 mA (2)		60 mA (2)	60 mA (8)
Switching threshold		U<5 V (low) U>15 V (high)			
Output					
Number		4		3	2
Power supply		out of AUX			
Output		short-circuit and overload protected according to EN 61131-2			
Max. output current	up to +40 °C	500 mA per output			1 A per output, ∑(Out) 2 A (9)
	at +55 °C				1 A per output, ∑(Out) 1,5 A (9)
	at +70 °C				1 A per output, ∑(Out)1 A (9)
Display					
LED ASI (green)		on: ASi voltage on flashing: ASi voltage on, but peripheral fault (3) or address 0 off: no ASi voltage			
LED FLT/FAULT (red)		on: slave address 0 or slave offline flashing: peripheral fault (4) off: slave online			
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX			
LEDs I1 / I2 ... In/In+1 (yellow)		state of inputs I1 / I2 ... I3 / I4: at least 1 input of input pair is on			state of inputs I1 / I2
LEDs O1/O2 ... On / On+1 (yellow)		state of outputs O1 / O2 ... O3 / O4: at least 1 output of output pair is on		state of outputs O1 / O2 ... O3: at least 1 output of output pair is on	–
LEDs O1, O2 (yellow / red)		–			yellow: state of outputs O1 / O2 red: overload

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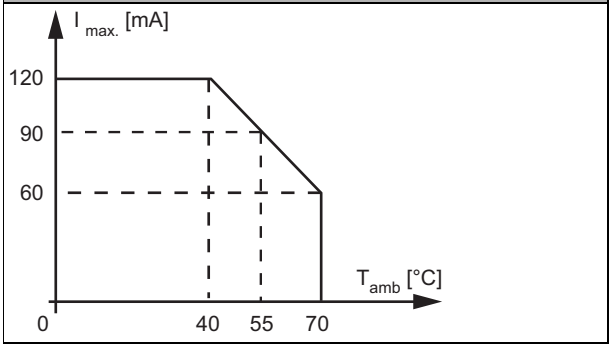
Article No.	BWU2487	BWU3032	BWU3375	BWU3517
Environment				
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529			
Operating altitude	max. 2000 m			
Ambient temperature	-30 °C … +55 °C (2) (4) (5) (up to max. +70 °C)			-30 °C … +55 °C (up to max. +70 °C) (8) (9) (5)
Storage temperature	-25 °C … +85 °C			
Housing	plastic, for DIN rail mounting			
Pollution degree	2			
Protection category	IP67 (6)			
Tolerable loading referring to humidity	according to EN 61131-2			
Max. tolerable shock load	30*g*, 11 ms, acc. EN 61131-2			
Max. tolerable vibration stress	5 ... 8 Hz 50 mm_{pp}/8 ... 500 Hz 6*g*, acc. EN 61131-2			
Insulation voltage	≥500 V			
Weight	100 g			
Dimensions (W / H / D) in mm	45 / 80 / 42			

(1) Loop resistance ≤150 Ω

(2)

BWU2487, BWU3375
Derating of power supply of attached sensors



(3) **See table "Peripheral fault indication"**

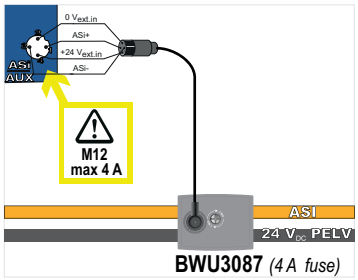
(4) Temperature range up to -30°C from Ident.No. ≥16381 (BWU3032).

(5) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

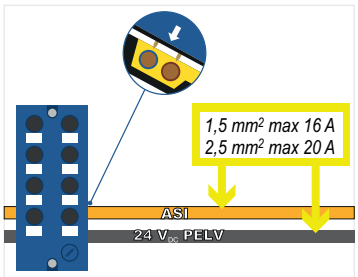
(6) Protection category IP67 can only be achieved if all open connections are sealed with suitable end caps fulfilling the same protection category.

(7) **Line protection:**
If the module is supplied via a M12 connection with A or B coding, it may only be used with a current load of max. 4 A per pin in acc. with IEC 61076-2-101 and IEC 61076-2-109. A fused tap is recommended. There is no such limitation for modules supplied via piercing contacts.

Connection to ASi and AUX via M12



via piercing contacts



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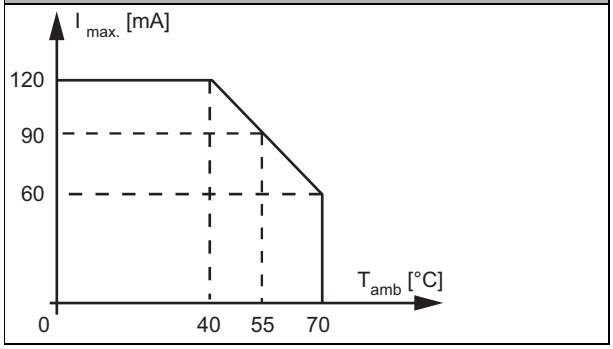
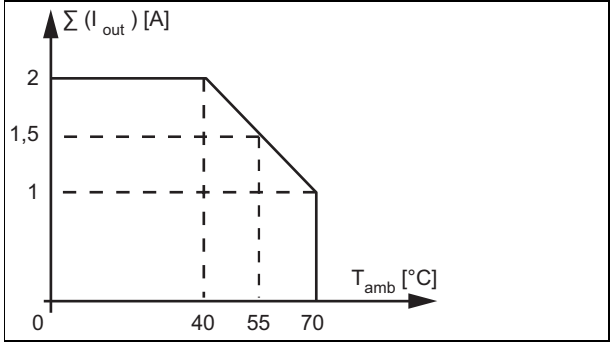
(8)

BWU3517
Derating of power supply of attached sensors



(9)

BWU3517
Derating total current of outputs



Article No.	BWU3496	BWU3540	BWU2626	BWU3426	BWU2617	BWU2684
General data						
Device type	input / output					
Connection						
ASi/AUX Connection	profile cable and piercing					
Periphery connection	M12, single-wiring		M12, Y-wiring		M12, single-wiring	
Length of connector cable	unlimited (1)					
ASi						
Profile	S-7.A.0 (ID1=7 default)	S-7.0.E (ID1=F default)	S-7.A.7 (ID1=7 fixed)			S-7.0.E (ID1=F default)
Address	1 AB slave	1 single slave	1 AB slave			1 single slave
Required Master profile	≥M3	≥M0	≥M4			≥M0
As of ASi specification	2.1	2.0	3.0			2.0
Operating voltage	30 V (18 … 31.6 V)					
Max. current consumption	165 mA					
Max. current consumption without sensor/ actuator supply	45 mA					
AUX						
Operating voltage	24 V (18 … 30 V)					
Max. current consumption	6 A	8 A	3 A			

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Article No.		BWU3496	BWU3540	BWU2626	BWU3426	BWU2617	BWU2684
Input							
Number		4					
Power supply		out of ASi					
Sensor supply		short-circuit and overload protected according to EN 61131-2					
Power supply of attached sensors	up to +40 °C	120 mA (2)					
	at +55 °C	100 mA (2)					
	at +70 °C	80 mA (2)					
Switching threshold		U<5 V (low) U>15 V (high)					
Output							
Number		3	4				
Power supply		out of AUX					
Output		short-circuit and overload protected according to EN 61131					
Max. output current	up to +40 °C	2 A per output, ∑ (Out) 6 A (3)	2 A per output,∑ (Out) 8 A (3)	1 A per output, ∑(Out) 3 A (7)	2 A per output,∑ (Out) 8 A (3)	1 A per output, ∑(Out) 3 A (7)	
	at +55 °C	1,5 A per output, ∑ (Out) 4,5 A (3)	1,5 A per output, ∑ (Out) 6 A (3)		1,5 A per output, ∑ (Out) 6 A (3)		
	at +70 °C	1 A per output, ∑ (Out) 3 A (3)	1 A per output,∑ (Out) 4 A (3)	1 A per output, ∑(Out) 2 A (7)	1 A per output,∑ (Out) 4 A (3)	1 A per output, ∑(Out) 2 A (7)	
Display							
LED ASI (green)		on: ASi voltage on flashing: ASi voltage on, but peripheral fault (4) or address 0 off: no ASi voltage					
LED FLT/FAULT (red)		on: slave address 0 or slave offline flashing: peripheral fault (4) off: slave online					
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX					
LEDs I1 ... In (yellow)		state of inputs I1 ... I4					
LEDs O1 ... On (yellow)		state of outputs O1 ... O3	state of outputs O1 ... O4	–			state of outputs O1 ... O4
LEDs O1 ... On (yellow / red)		–		yellow: state of outputs O1 ... O4 red: overload			–
Environment							
Applied standards		EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529					
Operating altitude		max. 2000 m					
Ambient temperature		-30 °C … +55 °C (2) (3) (5) (7) (up to max. +70 °C)					
Storage temperature		-30 °C … +85 °C					
Housing		plastic, for screw mounting					
Pollution degree		2					
Protection category		IP67 (6)					
Tolerable loading referring to humidity		according to EN 61131-2					
Max. tolerable shock load		30*g*, 11 ms, acc. EN 61131-2					
Max. tolerable vibration stress		5 ... 8 Hz 50 mm_{pp}/8 ... 500 Hz 6*g*, acc. EN 61131-2					
Insulation voltage		≥500 V					
Weight		200 g					
Dimensions (W / H / D) in mm		60 / 151 / 31					

(1) Loop resistance ≤150 Ω

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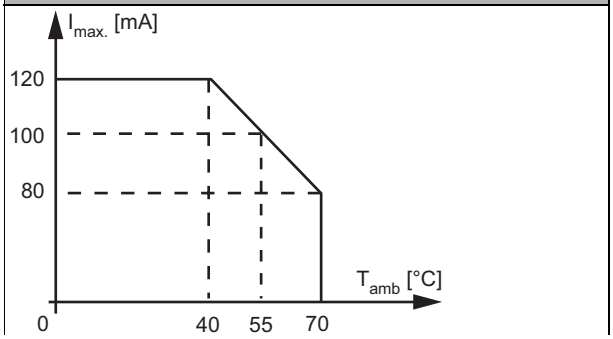
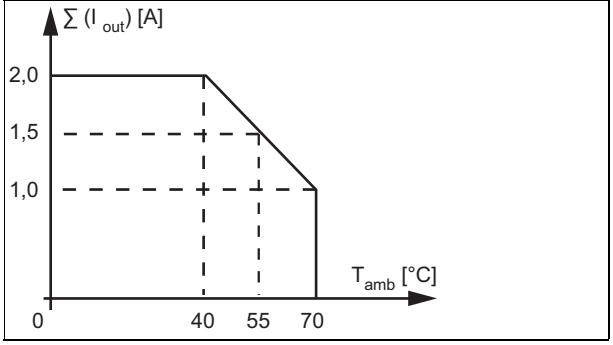
(2)

BWU2617, BWU2626, BWU3426, BWU2684, BWU3496, BWU3540
Derating of power supply of attached sensors



(3)

BWU3426, BWU3496, BWU3450
Derating output current per output



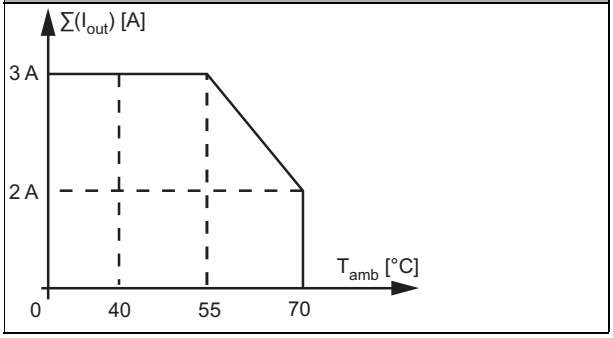
(4) **See table "Peripheral fault indication"**

(5) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

(6) Protection category IP67 can only be achieved if all open connections are sealed with suitable end caps fulfilling the same protection category.

(7)

BWU2617, BWU2626, BWU2645, BWU2684, BWU2810
Derating total current of outputs



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Article No.		BWU3892	BWU2619	BWU2652
General data				
Device type		input / output		output
Connection				
ASi/AUX Connection		profile cable and piercing		
Periphery connection		M12, Y-wiring		
Length of connector cable		unlimited (1)		
ASi				
Profile		slave 1: S-7.A.7 (ID1=7 fixed), slave 2: S-7.A.7 (ID1=6 default)		
Address		2 AB slaves		
Required Master profile		≥M4		
As of ASi specification		3.0		
Operating voltage		30 V (18 … 31.6 V)		
Max. current consumption		70 mA	270 mA	60 mA
Max. current consumption without sensor/ actuator supply		70 mA		60 mA
AUX				
Operating voltage		24 V (18 … 30 V)		
Max. current consumption		7 A	6 A	
Input				
Number		8		–
Power supply		out of AUX	out of ASi	–
Sensor supply		short-circuit and overload protected according to EN 61131-2		
Power supply of attached sensors	up to +40 °C	1 A (2)	200 mA (6)	–
	at +55 °C		150 mA (2)	–
	at +70 °C	0,5 A	100 mA (2)	–
Switching threshold		U<5 V (low) U>15 V (high)		–
Output				
Number		8		
Power supply		out of AUX		
Output		short-circuit and overload protected according to EN 61131-2		
Max. output current	up to +40 °C	1 A per output, ∑(O1...O4) 3 A + ∑ (O5-O8)3 A (3)		1 A per output, ∑ (O1...O4) 3 A + ∑ (O5...O8) 3 A (7)
	at +55 °C	1 A per output, ∑(O1...O4) 1,625 A + ∑(O5...O8) 1,625 A (3)		
	at +70 °C	0,25 A per output, ∑(O1...O4) 0,25 A + ∑(O5...O8) 0,25 A (3)		1 A per output, ∑ (O1...O4) 2 A + ∑ (O5...O8) 2 A (7)
Display				
LED ASI/FLT 1 (red/green)		green: slave online red: slave offline yellow/red flashing: address 0 red/green flashing: peripheral fault (4)		
LED ASI/FLT 2 (red/green)		green: slave online red: slave offline yellow/red flashing: address 0 red/green flashing: peripheral fault (4) red flashing: slave 2 is switched off, because slave 1 is offline		
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX		
LEDs I1 / I2 ... In/In+1 (yellow)		state of inputs I1 / I2 ... I7 / I8: at least 1 input of input pair is on		–
LEDs O1 ... On (yellow / red)		–		yellow: state of outputs O1 ... O8 red: overload
LEDs O1/O2 ... On / On+1(yellow)		state of outputs O1 / O2 ... O7 / O8: at least 1 output of output pair is on		–

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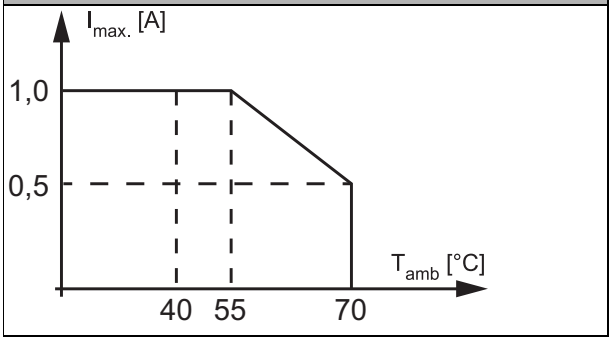
Article No.	BWU3892	BWU2619	BWU2652
Environment			
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529		
Operating altitude	max. 2000 m		
Ambient temperature	-30 °C … +55 °C (6) (3) (4) (7) (up to max. +70 °C)		
Storage temperature	-30 °C … +85 °C		
Housing	plastic, for screw mounting		
Pollution degree	2		
Protection category	IP67 (5)		
Tolerable loading referring to humidity	according to EN 61131-2		
Max. tolerable shock load	30*g*, 11 ms, acc. EN 61131-2		
Max. tolerable vibration stress	5 ... 8 Hz 50 mm_{pp}/8 ... 500 Hz 6*g*, acc. EN 61131-2		
Insulation voltage	≥500 V		
Weight	200 g		
Dimensions (W / H / D) in mm	60 / 151 / 31		

(1) Loop resistance ≤150 Ω

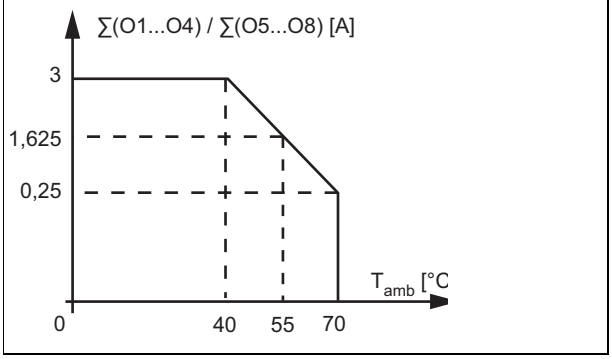
(2)

BWU3892
Derating of power supply of attached sensors



(3)

BWU2619, BWU3892
Derating total current of outputs



(4) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

(5) Protection category IP67 can only be achieved if all open connections are sealed with suitable end caps fulfilling the same protection category.

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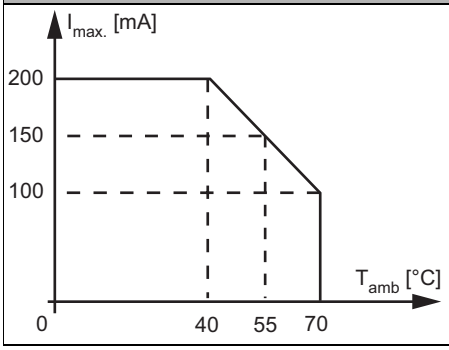
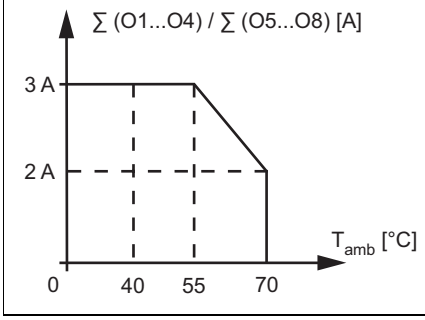
(6)

BWU2619
Derating of power supply of attached sensors



(7)

BWU2652
Derating total current of outputs



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Article No.		BWU3496	BWU3540	BWU2626	BWU2617	BWU2684
General data						
Device type		input / output				
Connection						
ASi/AUX Connection		profile cable and piercing				
Periphery connection		M12, single-wiring		M12, Y-wiring	M12, single-wiring	
Length of connector cable		unlimited (1)				
ASi						
Profile		S-7.A.0 (ID1=7 default)	S-7.0.E (ID1=F default)	S-7.A.7 (ID1=7 fixed)		S-7.0.E (ID1=F default)
Address		1 AB slave	1 single slave	1 AB slave		1 single slave
Required Master profile		≥M3	≥M0	≥M4		≥M0
As of ASi specification		2.1	2	3		2
Operating voltage		30 V (18 … 31.6 V)				
Max. current consumption		165 mA				
Max. current consumption without sensor/ actuator supply		45 mA				
AUX						
Operating voltage		24 V (18 … 30 V)				
Max. current consumption		6 A	8 A	3 A		
Input						
Number		4				
Power supply		out of ASi				
Sensor supply		short-circuit and overload protected according to EN 61131-2				
Power supply of attached sensors	up to +40 °C	120 mA (2)				
	at +55 °C	100 mA (2)				
	at +70 °C	80 mA (2)				
Switching threshold		U<5 V (low) U>15 V (high)				
Output						
Number		3	4			
Power supply		out of AUX				
Output		short-circuit and overload protected according to EN 61131				
Max. output current	up to +40 °C	2 A per output, ∑ (Out) 6 A (3)	2 A per output,∑ (Out) 8 A (3)	1 A per output, ∑(Out) 3 A (7)		
	at +55 °C	1,5 A per output, ∑ (Out) 4,5 A (3)	1,5 A per output, ∑ (Out) 6 A (3)			
	at +70 °C	1 A per output, ∑ (Out) 3 A (3)	1 A per output,∑ (Out) 4 A (3)	1 A per output, ∑(Out) 2 A (7)		

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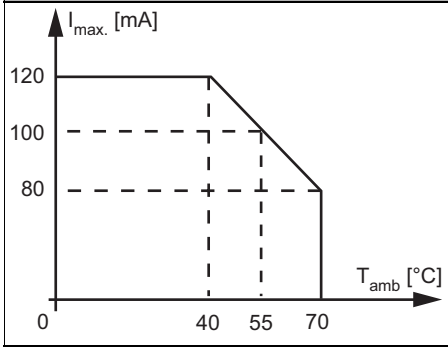
Article No.	BWU3496	BWU3540	BWU2626	BWU2617	BWU2684
Display					
LED ASI (green)	on: ASi voltage on flashing: ASi voltage on, but peripheral fault (4) or address 0 off: no ASi voltage				
LED FLT/FAULT (red)	on: slave address 0 or slave offline flashing: peripheral fault (4) off: slave online				
LED AUX (green)	on: 24 V_{DC} AUX off: no 24 V_{DC} AUX				
LEDs I1 ... In (yellow)	state of inputs I1 ... I4				
LEDs O1 ... On (yellow)	state of outputs O1 ... O3	state of outputs O1 ... O4	–		state of outputs O1 ... O4
LEDs O1 ... On (yellow / red)	–		yellow: state of outputs O1 ... O4 red: overload		–
Environment					
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529				
Operating altitude	max. 2000 m				
Ambient temperature	-30 °C … +55 °C (2) (3) (5) (7) (up to max. +70 °C)				
Storage temperature	-30 °C … +85 °C				
Housing	plastic, for screw mounting				
Pollution degree	2				
Protection category	IP67 (6)				
Tolerable loading referring to humidity	according to EN 61131-2				
Max. tolerable shock load	30*g*, 11 ms, acc. EN 61131-2				
Max. tolerable vibration stress	5 ... 8 Hz 50 mm_{pp}/8 ... 500 Hz 6*g*, acc. EN 61131-2				
Insulation voltage	≥500 V				
Weight	200 g				
Dimensions (W / H / D) in mm	60 / 151 / 31				

(1) Loop resistance ≤150 Ω

(2)

BWU2617, BWU2626, BWU2684, BWU3496, BWU3540
Derating of power supply of attached sensors



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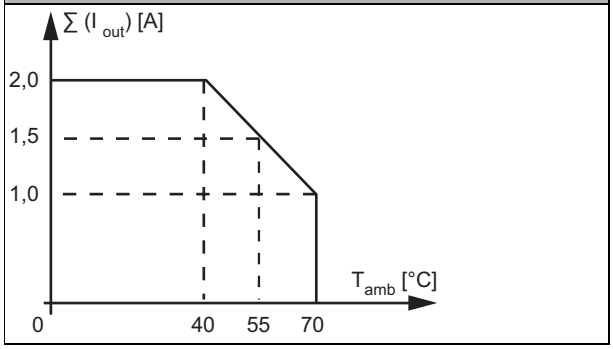
(3)

BWU3496, BWU3450
Derating output current per output



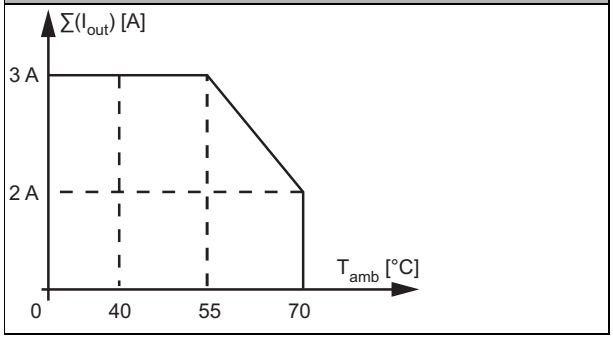
(4) **See table "Peripheral fault indication"**

(5) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

(6) Protection category IP67 can only be achieved if all open connections are sealed with suitable end caps fulfilling the same protection category.

(7)

BWU2617, BWU2626, BWU2684
Derating total current of outputs



Article No.	BWU3510	BWU2810	BWU2645
General data			
Device type	input / output		
Connection			
ASi/AUX Connection	profile cable and piercing		M12 (6)
Periphery connection	M12, Y-wiring	M12, single-wiring	
Length of connector cable	unlimited (1)		
ASi			
Profile	S-7.A.7 (ID1=7 fixed)		
Address	1 AB slave		
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		
AUX			
Operating voltage	24 V (18 … 30 V)		
Max. current consumption	3 A		

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Article No.		BWU3510	BWU2810	BWU2645
Input				
Number		4		
Power supply		out of AUX		
Sensor supply		short-circuit and overload protected according to EN 61131-2		
Power supply of attached sensors	up to +40 °C	max. 1 A		
	at +55 °C			
	at +70 °C			
Switching threshold		U<5 V (low) U>15 V (high)		
Output				
Number		4		
Power supply		out of AUX		
Output		short-circuit and overload protected according to EN 61131		
Max. output current	up to +40 °C	1 A per output, ∑(Out) 3 A (2)		
	at +55 °C			
	at +70 °C	1 A per output, ∑(Out) 2 A (3)		
Display				
LED ASI (green)		on: ASi voltage on flashing: ASi voltage on, but peripheral fault (3) or address 0 off: no ASi voltage		
LED FLT/FAULT (red)		on: slave address 0 or slave offline flashing: peripheral fault (4) off: slave online		
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX		
LEDs I1 ... In (yellow)		state of inputs I1 ... I4		
LEDs O1 ... On (yellow / red)		yellow: state of outputs O1 ... O4 red: overload		
Environment				
Applied standards		EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529		
Operating altitude		max. 2000 m		
Ambient temperature		-30 °C … +55 °C (2) (4) (up to max. +70 °C)		
Storage temperature		-30 °C … +85 °C		
Housing		plastic, for screw mounting		
Pollution degree		2		
Protection category		IP67 (5)		
Tolerable loading referring to humidity		according to EN 61131-2		
Max. tolerable shock load		30*g*, 11 ms, acc. EN 61131-2		
Max. tolerable vibration stress		5 ... 8 Hz 50 mm_{pp}/8 ... 500 Hz 6*g*, acc. EN 61131-2		
Insulation voltage		≥500 V		
Weight		200 g		
Dimensions (W / H / D) in mm		60 / 151 / 31		

(1) Loop resistance ≤150 Ω

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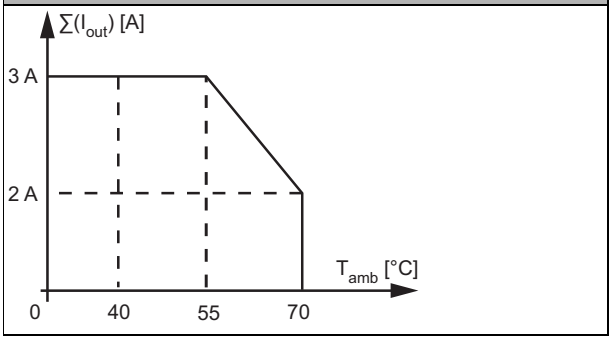
(2)

BWU2645, BWU2810, BWU3510
Derating total current of outputs



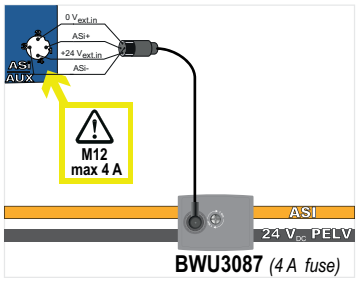
(3) **See table "Peripheral fault indication"**

(4) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada

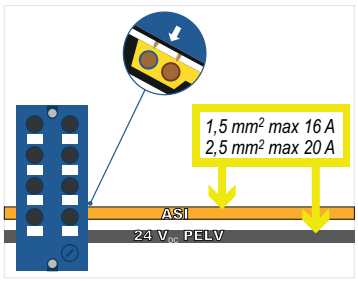
(5) Protection category IP67 can only be achieved if all open connections are sealed with suitable end caps fulfilling the same protection category.

(6) **Line protection:**
If the module is supplied via a M12 connection with A or B coding, it may only be used with a current load of max. 4 A per pin in acc. with IEC 61076-2-101 and IEC 61076-2-109. A fused tap is recommended. There is no such limitation for modules supplied via piercing contacts.

Connection to ASi and AUX
via M12



via piercing contacts



Article No.	BWU2713	BWU2594	BWU2728
General data			
Device type	output		
Connection			
ASi/AUX Connection	profile cable and piercing		
Periphery connection	M12, Y-wiring		
Length of connector cable	unlimited (1)		
ASi			
Profile	S-7.F.E (ID1=F default)	S-7.A.7 (ID1=7 fixed)	
Address	1 single slave	1 AB slave	
Required Master profile	≥M0	≥M4	
As of ASi specification	2	3	
Operating voltage	30 V (18 … 31.6 V)		
Max. current consumption	35 mA		
Max. current consumption without sensor/ actuator supply	35 mA		
AUX			
Operating voltage	24 V (18 … 30 V)		
Max. current consumption	3 A		8 A

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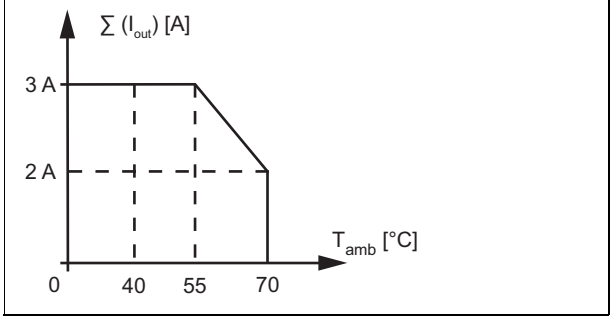
Article No.		BWU2713	BWU2594	BWU2728
Output				
Number		4		
Power supply		out of AUX		
Output		short-circuit and overload protected according to EN 61131		
Max. output current	up to +40 °C	1 A per output ∑ (Out) 3 A (2)		2 A per output, ∑ (Out) 8 A (6) (7)
	at +55 °C			2 A per output, ∑ (Out) 4 A (6) (7)
	at +70 °C	1 A per output ∑ (Out) 2 A (2)		–
Display				
LED ASI (green)		on: ASi voltage on flashing: ASi voltage on, but peripheral fault (3) or address 0 off: no ASi voltage		
LED FLT/FAULT (red)		on: slave address 0 or slave offline flashing: peripheral fault (3) off: slave online		
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX		
LEDs O1 ... On (yellow /red)		yellow: state of outputs O1 ... O4 red: overload		
Environment				
Applied standards		EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529		
Operating altitude		max. 2000 m		
Ambient temperature		-30 °C … +55 °C (up to max. +70 °C) (2) (4) (6)		
Storage temperature		-30 °C … +85 °C		
Housing		plastic, for DIN rail mounting		
Pollution degree		2		
Protection category		IP67 (5)		
Tolerable loading referring to humidity		according to EN 61131-2		
Max. tolerable shock load		30*g*, 11 ms, acc. EN 61131-2		
Max. tolerable vibration stress		5 ... 8 Hz 50 mm_{pp}/8 ... 500 Hz 6*g*, acc. EN 61131-2		
Insulation voltage		≥500 V		
Weight		100 g		
Dimensions (W / H / D) in mm		45 / 80 / 42		

(1) Loop resistance ≤150 Ω

(2)

BWU2594, BWU2713,
Derating total current of outputs



(3) **See table "Peripheral fault indication"**

(4) Maximum ambient operating temperature +55 °C according UL certificate for the use in the USA and Canada.

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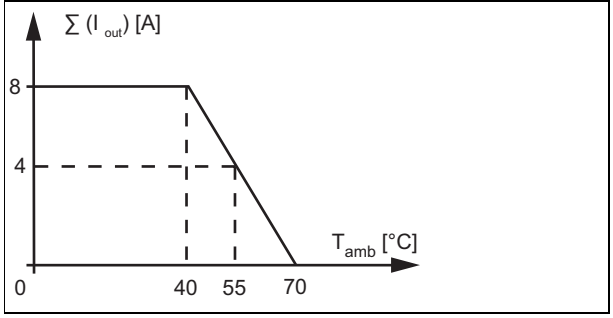
(5) Protection category IP67 can only be achieved if all open connections are sealed with suitable end caps fulfilling the same protection category.

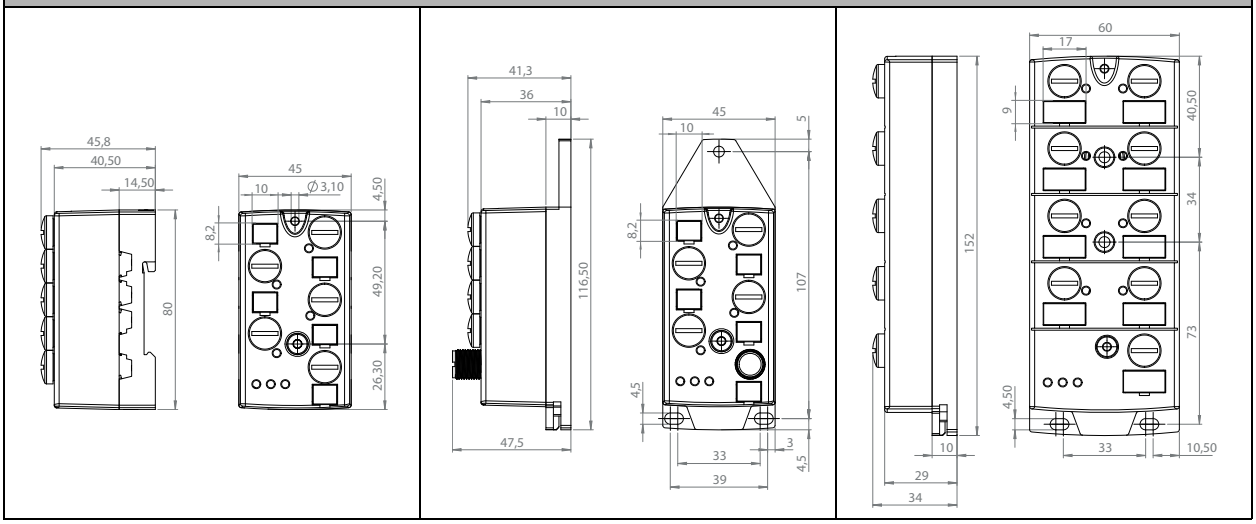
(6)

BWU2728
Derating total current of outputs



(7) To power consumers whose current draw is greater than 2A, two or more outputs can be combined with each other. The data bits of the bundled outputs must be set at the same time.

Dimensional drawings



UL-specifications (UL508) BWU2547, BWU2552, BWU2594, BWU2617, BWU2619, BWU2620, BWU2626, BWU3426, BWU2645, BWU2651, BWU2652, BWU2684, BWU2713, BWU2725, BWU2728, BWU2767, BWU2770, BWU2810, BWU2983, BWU3032, BWU3077, BWU3141, BWU3240, BWU3375, BWU3539, BWU3456, BWU3457, BWU3496, BWU3510, BWU3517, BWU3540, BWU3556, BWU3775, BWU3887, BWU3892	
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.
In general	UL mark does not provide UL certification for any functional safety rating or aspects of the above devices.

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Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU2487	●	–	–
BWU2547	–	–	●
BWU2552	●	–	–
BWU2594	●	●	●
BWU2617	●	●	–
BWU2619	●	●	–
BWU2620	●	–	–
BWU2626	●	●	–
BWU3426	●	–	–
BWU2645	●	●	–
BWU2651	●	–	–
BWU2652	●	●	●
BWU2684	●	●	–
BWU2713	●	●	●
BWU2725	●	–	●
BWU2728	●	●	●
BWU2767	●	–	●
BWU2770	●	–	●
BWU2810	●	●	–
BWU2983	●	–	–
BWU3032	●	–	–
BWU3077	●	–	–
BWU3141	●	●	●
BWU3240	●	–	–
BWU3375	●	–	–
BWU3539	●	●	–
BWU3456	●	●	●
BWU3457	●	–	–
BWU3496	●	–	–
BWU3510	●	●	–
BWU3517	●	●	●
BWU3540	●	–	–
BWU3556	●	–	–
BWU3775	●	●	–
BWU3887	–	–	●
BWU3892	●	●	–

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Programming	ASi bit assignment			
Bit	**D3**	**D2**	**D1**	**D0**
	input			
BWU2487 / BWU2547 / BWU2552 / BWU2617 / BWU2620 / BWU2626 / BWU3426 / BWU2645 / BWU2684 / BWU2725 / BWU2767 / BWU2810 / BWU3032 / BWU3077 / BWU3240 / BWU3375 / BWU3496 / BWU3510 / BWU3556 / BWU3540 / BWU3457 / BWU3887	I4	I3	I2	I1
BWU3141 / BWU3456 BWU3539 / BWU3517 / BWU3775	–	–	I2	I1
BWU2619 / BWU2651 / BWU2770 / BWU2983 / BWU3892	slave 1: I4	slave 1: I3	slave 1: I2	slave 1: I1
	slave 2: I8	slave 2: I7	slave 2: I6	slave 2: I5
	output			
BWU2487 / BWU2547 / BWU2594 / BWU2617 / BWU2626 / BWU3426 / BWU2645 / BWU2684 / BWU2713 / BWU2728 / BWU2810 / BWU3032 / BWU3240 / BWU3510 / BWU3540 / BWU3887	O4	O3	O2	O1
BWU2767/ BWU3141 / BWU3456 /BWU3517	–	–	O2	O1
BWU3539 / BWU3775	O4	O3	–	–
BWU3375 /BWU3496	–	O3	O2	O1
BWU2619 / BWU2652 / BWU3892	slave 1: O4	slave 1: O3	slave 1: O2	slave 1: O1
	slave 2: O8	slave 2: O7	slave 2: O6	slave 2: O5

Programming	Parameter bits			
Bit	**P3**	**P2**	**P1**	**P0**
BWU2652	not used	0= on / 1= off (synchronous I/O mode)	–	not used, Watchdog always on
BWU2594 / BWU2713				0= off / 1= on (Watchdog)
BWU2728			0= off / 1= on (peripheral fault, if AUX missing)	
BWU2487 / BWU2547 / BWU2617 / BWU2626 / BWU3426 / BWU2645 / BWU2684 / BWU2767 / BWU2810 / BWU3032 / BWU3141 / BWU3240 / BWU3375 / BWU3456 / BWU3539 / BWU3496 / BWU3510 / BWU3517 / BWU3540 / BWU3775 / BWU3887			0= on / 1= off (data input filter 128µs)	
BWU2552 / BWU2620 / BWU2651 / BWU2725 / BWU2770 / BWU2983 / BWU3077 / BWU3457 BWU3556				0= off / 1= on (peripheral fault)
BWU2619 / BWU3892				not used, Watchdog always on

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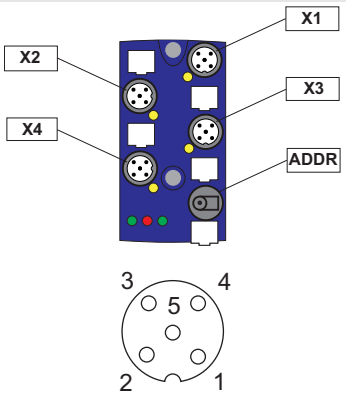
Pin assignment

Signal name	Explanation
Ix	digital input x
Ox	digital output x
$24V_{ext\ out}$	power supply, out of external voltage, positive pole (AUX, actuator supply)
$0V_{ext\ out}$	power supply, out of external voltage, negative pole (AUX, actuator supply)
$24V_{out\ of\ ASi}$	power supply, out of ASi, positive pole (sensor supply)
$0V_{out\ of\ ASi}$	power supply, out of ASi, negative pole (sensor supply)
ASi +, ASi -	connection to ASi bus
n.c. (not connected)	not connected

Connections

Article no.	M12 connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU3141	**X1**	I1	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	O1	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O1	n.c.
	X3	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X4	O2	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU3456	**X1**	I1	24 $V_{out\ of\ ASi}$	I2	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	O1	24 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	O1	n.c.
	X3	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X4	O2	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU3539 BWU3775	**X1**	I1	24 $V_{out\ of\ ASi}$	I2	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	O3	24 $V_{ext\ out}$	O4	0 $V_{ext\ out}$	O3	n.c.
	X3	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X4	O4	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2487	**X1**	I1/I2	24 $V_{out\ of\ ASi}$	I2	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	O1/O2	24 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	O1	n.c.
	X3	I3/I4	24 $V_{out\ of\ ASi}$	I4	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	O3/O4	24 $V_{ext\ out}$	O4	0 $V_{ext\ out}$	O3	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU3032	**X1**	I1/I2	24 $V_{ext\ out}$	I2	0 $V_{ext\ out}$	I1	n.c.
	X2	O1/O2	24 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	O1	n.c.
	X3	I3/I4	24 $V_{ext\ out}$	I4	0 $V_{ext\ out}$	I3	n.c.
	X4	O3/O4	24 $V_{ext\ out}$	O4	0 $V_{ext\ out}$	O3	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU3375	**X1**	I1/I2	24 $V_{out\ of\ ASi}$	I2	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	O1/O2	24 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	O1	n.c.
	X3	I3/I4	24 $V_{out\ of\ ASi}$	I4	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	O3	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O3	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2547	**X1**	I1/O1	24 $V_{ext\ out}$	O1	0 $V_{ext\ out}$	I1	n.c.
	X2	I2/O2	24 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	I2	n.c.
	X3	I3/O3	24 $V_{ext\ out}$	O3	0 $V_{ext\ out}$	I3	n.c.
	X4	I4/O4	24 $V_{ext\ out}$	O4	0 $V_{ext\ out}$	I4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					



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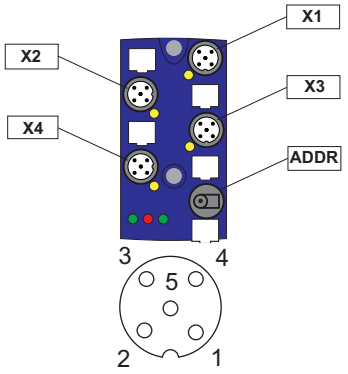
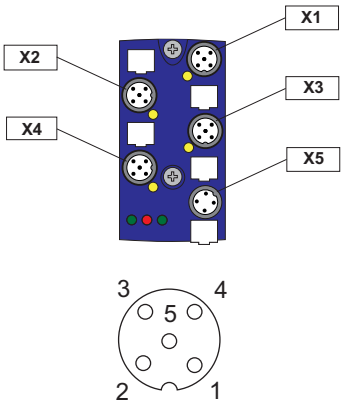
Connections

Article no.	M12 connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU3887	**X1**	I1/O1	24 $V_{ext\ out}$	I1	0 $V_{ext\ out}$	O1	n.c.
	X2	I2/O2	24 $V_{ext\ out}$	I2	0 $V_{ext\ out}$	O2	n.c.
	X3	I3/O3	24 $V_{ext\ out}$	I3	0 $V_{ext\ out}$	O3	n.c.
	X4	I4/O4	24 $V_{ext\ out}$	I4	0 $V_{ext\ out}$	O4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2767	**X1**	I1/O1	24 $V_{ext\ out}$	O1	0 $V_{ext\ out}$	I1	n.c.
	X2	I2/O2	24 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	I2	n.c.
	X3	I3	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I3	n.c.
	X4	I4	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2594 BWU2713 BWU2728	**X1**	O1	0 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	O1	n.c.
	X2	O2	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	X3	O3	0 $V_{ext\ out}$	O4	0 $V_{ext\ out}$	O3	n.c.
	X4	O4	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2552	**X1**	I1	24 $V_{out\ of\ ASi}$	I2	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3	24 $V_{out\ of\ ASi}$	I4	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2620 BWU3556	**X1**	I1	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU3457	**X1**	I1	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I4	n.c.
	X5	ASi	ASi+	n.c.	ASi-	n.c.	–
BWU2725	**X1**	I1	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I1	n.c.
	X2	I2	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I2	n.c.
	X3	I3	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I3	n.c.
	X4	I4	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU3077	**X1**	I1	24 $V_{out\ of\ ASi}$	I2	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3	24 $V_{out\ of\ ASi}$	I4	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I4	n.c.
	X5	ASi	ASi+	n.c.	ASi-	n.c.	–





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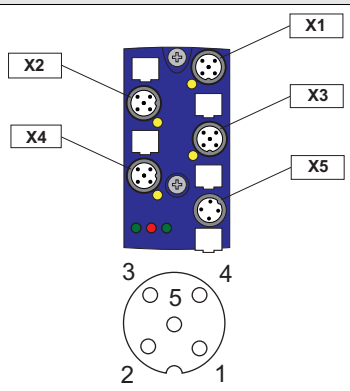
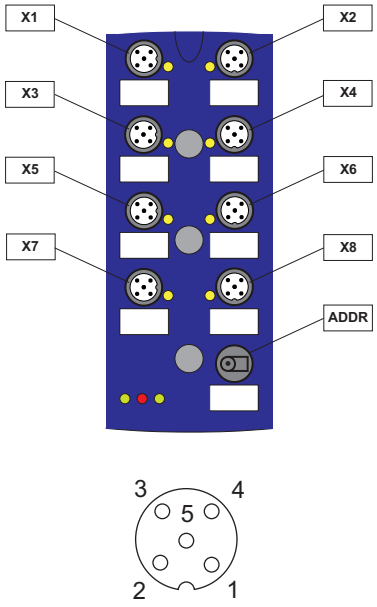
Connections

Article no.	M12 connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU3240	**X1**	I1/O1	24 $V_{out\ of\ ASi}$	O1	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2/O2	24 $V_{out\ of\ ASi}$	O2	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3/O3	24 $V_{out\ of\ ASi}$	O3	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4/O4	24 $V_{out\ of\ ASi}$	O4	0 $V_{out\ of\ ASi}$	I4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU3517	**X1**	I1	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	O1	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O1	n.c.
	X3	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X4	O2	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	X5	ASi	ASi+	0 V ext in	ASi-	24 V ext in	–



Connections

Article no.	M12 connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU2617 BWU2684	**X1**	I1	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I4	n.c.
	X5	O1	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O1	n.c.
	X6	O2	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	X7	O3	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O3	n.c.
	X8	O4	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2619	**X1**	I1/I2	24 $V_{out\ of\ ASi}$	I2	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I3/I4	24 $V_{out\ of\ ASi}$	I4	0 $V_{out\ of\ ASi}$	I3	n.c.
	X3	I5/I6	24 $V_{out\ of\ ASi}$	I6	0 $V_{out\ of\ ASi}$	I5	n.c.
	X4	I7/I8	24 $V_{out\ of\ ASi}$	I8	0 $V_{out\ of\ ASi}$	I7	n.c.
	X5	O1/O2	0 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	O1	n.c.
	X6	O3/O4	0 $V_{ext\ out}$	O4	0 $V_{ext\ out}$	O3	n.c.
	X7	O5/O6	0 $V_{ext\ out}$	O6	0 $V_{ext\ out}$	O5	n.c.
	X8	O7/O8	0 $V_{ext\ out}$	O8	0 $V_{ext\ out}$	O7	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2626 BWU3426	**X1**	I1	24 $V_{out\ of\ ASi}$	I2	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3	24 $V_{out\ of\ ASi}$	I4	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I4	n.c.
	X5	O1	0 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	O1	n.c.
	X6	O2	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	X7	O3	0 $V_{ext\ out}$	O4	0 $V_{ext\ out}$	O3	n.c.
	X8	O4	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU3496	**X1**	I1	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I4	n.c.
	X5	O1	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O1	n.c.
	X6	O2	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	X7	O3	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O3	n.c.
	X8	not used					
	ADDR (dummy plug)	connection for ASi addressing device					



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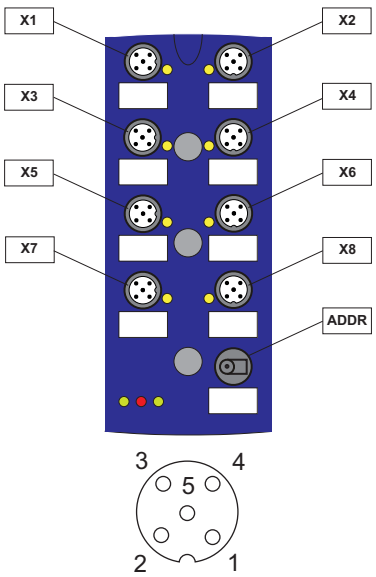
Connections

Article no.	M12 connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU3540	**X1**	I1	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I4	n.c.
	X5	O1	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O1	n.c.
	X6	O2	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	X7	O3	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O3	n.c.
	X8	O4	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU3892	**X1**	I1/I2	24 $V_{ext\ out}$	I2	0 $V_{ext\ out}$	I1	n.c.
	X2	I3/I4	24 $V_{ext\ out}$	I4	0 $V_{ext\ out}$	I3	n.c.
	X3	I5/I6	24 $V_{ext\ out}$	I6	0 $V_{ext\ out}$	I5	n.c.
	X4	I7/I8	24 $V_{ext\ out}$	I8	0 $V_{ext\ out}$	I7	n.c.
	X5	O1/O2	0 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	O1	n.c.
	X6	O3/O4	0 $V_{ext\ out}$	O4	0 $V_{ext\ out}$	O3	n.c.
	X7	O5/O6	0 $V_{ext\ out}$	O6	0 $V_{ext\ out}$	O5	n.c.
	X8	O7/O8	0 $V_{ext\ out}$	O8	0 $V_{ext\ out}$	O7	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2651	**X1**	I1	24 $V_{out\ of\ ASi}$	I2	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3	24 $V_{out\ of\ ASi}$	I4	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I4	n.c.
	X5	I5	24 $V_{out\ of\ ASi}$	I6	0 $V_{out\ of\ ASi}$	I5	n.c.
	X6	I6	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I6	n.c.
	X7	I7	24 $V_{out\ of\ ASi}$	I8	0 $V_{out\ of\ ASi}$	I7	n.c.
	X8	I8	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I8	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2983	**X1**	I1	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I1	n.c.
	X2	I2	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I2	n.c.
	X3	I3	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I3	n.c.
	X4	I4	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I4	n.c.
	X5	I5	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I5	n.c.
	X6	I6	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I6	n.c.
	X7	I7	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I7	n.c.
	X8	I8	24 $V_{out\ of\ ASi}$	n.c.	0 $V_{out\ of\ ASi}$	I8	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2652	**X1**	O1	0 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	O1	n.c.
	X2	O2	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	X3	O3	0 $V_{ext\ out}$	O4	0 $V_{ext\ out}$	O3	n.c.
	X4	O4	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O4	n.c.
	X5	O5	0 $V_{ext\ out}$	O6	0 $V_{ext\ out}$	O5	n.c.
	X6	O6	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O6	n.c.
	X7	O7	0 $V_{ext\ out}$	O8	0 $V_{ext\ out}$	O7	n.c.
	X8	O8	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O8	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU2770	**X1**	I1	24 $V_{ext\ out}$	I2	0 $V_{ext\ out}$	I1	n.c.
	X2	I2	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I2	n.c.
	X3	I3	24 $V_{ext\ out}$	I4	0 $V_{ext\ out}$	I3	n.c.
	X4	I4	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I4	n.c.
	X5	I5	24 $V_{ext\ out}$	I6	0 $V_{ext\ out}$	I5	n.c.
	X6	I6	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I6	n.c.
	X7	I7	24 $V_{ext\ out}$	I8	0 $V_{ext\ out}$	I7	n.c.
	X8	I8	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I8	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					



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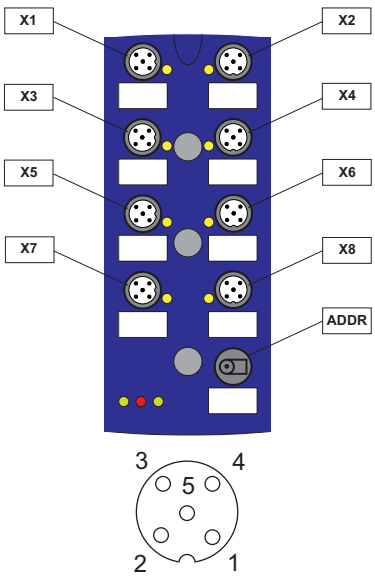
Connections

Article no.	M12 connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU2810	**X1**	I1	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I1	n.c.
	X2	I2	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I2	n.c.
	X3	I3	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I3	n.c.
	X4	I4	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I4	n.c.
	X5	O1	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O1	n.c.
	X6	O2	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	X7	O3	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O3	n.c.
	X8	O4	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					
BWU3510	**X1**	I1	24 $V_{ext\ out}$	I2	0 $V_{ext\ out}$	I1	n.c.
	X2	I2	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I2	n.c.
	X3	I3	24 $V_{ext\ out}$	I4	0 $V_{ext\ out}$	I3	n.c.
	X4	I4	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I4	n.c.
	X5	O1	n.c.	O2	0 $V_{ext\ out}$	O1	n.c.
	X6	O2	n.c.	n.c.	0 $V_{ext\ out}$	O2	n.c.
	X7	O3	n.c.	O4	0 $V_{ext\ out}$	O3	n.c.
	X8	O4	n.c.	n.c.	0 $V_{ext\ out}$	O4	n.c.
	ADDR (dummy plug)	connection for ASi addressing device					



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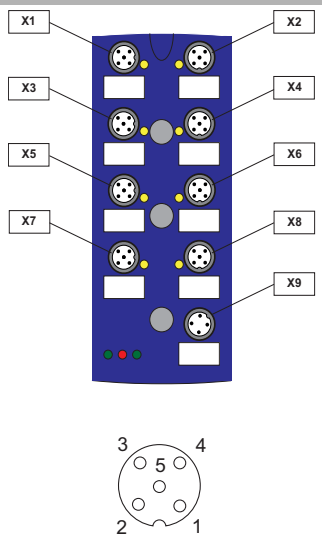
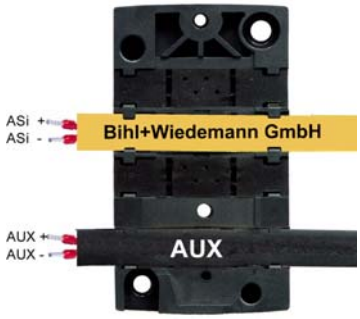
Connections

Article no.	M12 connection	Marking	Pin1	Pin2	Pin3	Pin4	Pin5
BWU2645	**X1**	I1	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I1	n.c.
	X2	I2	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I2	n.c.
	X3	I3	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I3	n.c.
	X4	I4	24 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	I4	n.c.
	X5	O1	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O1	n.c.
	X6	O2	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O2	n.c.
	X7	O3	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O3	n.c.
	X8	O4	0 $V_{ext\ out}$	n.c.	0 $V_{ext\ out}$	O4	n.c.
	X9	ASi	ASi+	0 $V_{ext\ in}$	ASi-	24 $V_{ext\ in}$	–

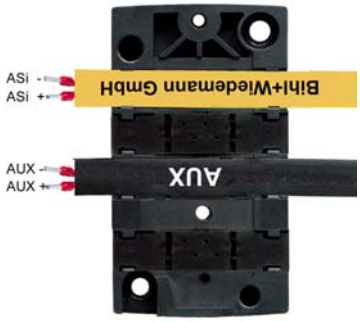


Mounting according to cable direction

IP67



ordinary

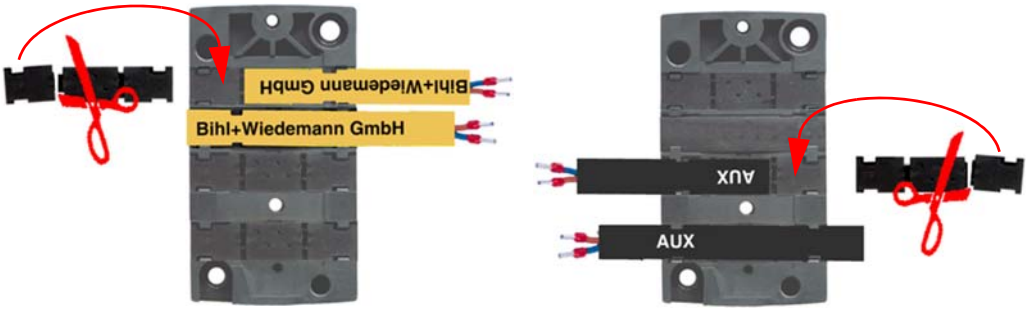


turned

Line termination with sealing profiles / as junction

IP54

max. 8A



Accessories:

- **ASi substructure module for 4 channel module in 45 mm housing (art. no. BWU2349)**
- **ASi substructure module (CNOMO) for 4 channel module in 45 mm housing (art. no. BWU2350)**
- **ASi substructure module (CNOMO) for 8 channel module in 60 mm housing (art. no. BWU2351)**
- **Protection caps for unused M12 sockets (art. no. BW2368)**
- **Sealing profile IP67 (IDC plug), 60 mm (art. no. BW3282)**
- **Sealing profile IP67 (IDC plug), 45 mm (art. no. BW3283)**
- **Passive Distributor ASi/AUX to 2 x M12 socket, internal protection via changeable 4 A slow-blow fuses (art. no. BWU3087)**
- **It is recommended to use pre-assembled cables to connect the power source with the module.**

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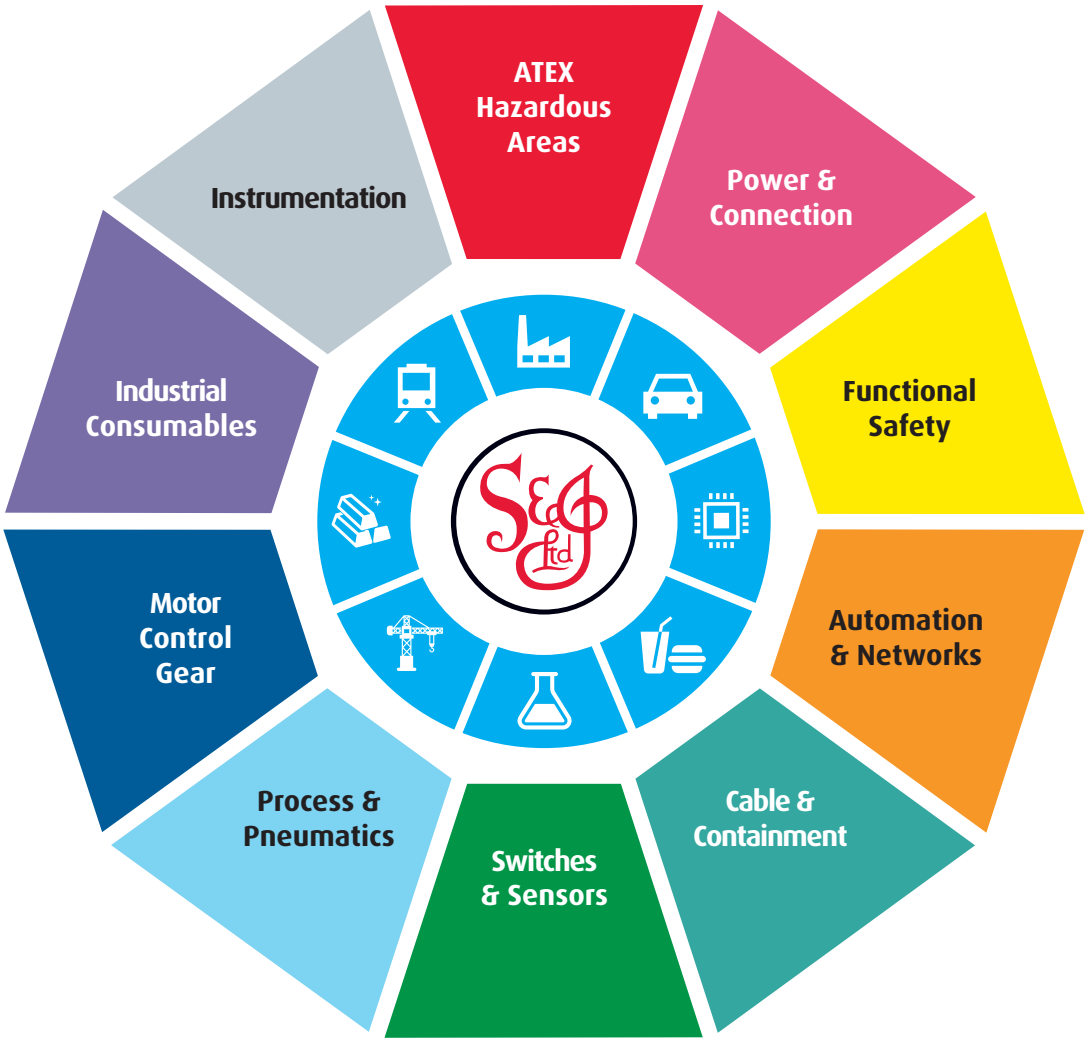

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