Active Distributors ASi, IP20/IP67

2 x connectors for profile cable

Periphery connection

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

(Figure similar)

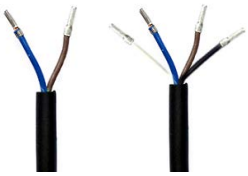
Figure	Inputs digital	Outputs digital	Input voltage (sensor supply) (1)	Output voltage (actuator supply) (2)	Connection (3)	ASi address (4)	Special function	Art. no.
	4	2 x electronic	out of ASi	out of ASi	6 x M8 cable sockets, straight, 4 poles	1 AB address	to control valves Festo CPE14 / VUVG-L14 via ASi	**BWU3577**
	4	4 x electronic	out of ASi	out of AUX	4 x M8 cable sockets, straight, 4 poles	1 AB address	–	**BWU3555**
	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	–	**BWU3695**
	4	–	out of ASi	–	4 x M12 cable sockets, straight, 5 poles	1 AB address	–	**BWU3632**
	4	–	out of ASi	–	4 x M12 cable sockets, straight, 5 poles	1 AB address	–	**BWU3633**
	4	–	out of AUX	–	3 x round cable/ connecting wires 0,5 mm²+ 1 x M8 cable socket, straight, 4 poles	1 AB address	–	**BWU3608**
	4	4 x electronic	out of ASi	out of AUX	2 x round cable/ connecting wires 0,25 mm²	1 AB address	–	**BWU3317**
	4	4 x electronic	out of ASi	out of AUX	2 x M12 cable sockets, straight, 5 poles	1 AB address	–	**BW3507**
	4	4 x electronic	out of ASi	out of ASi	2 x round cable/ connecting wires 0,25 mm²	1 AB address	–	**BWU3326**
	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	**BWU3785**
	4	–	out of ASi	–	2 x round cable/ connecting wires 0,34 mm²	1 AB address	–	**BWU3374**
	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	**BWU3534**
	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	**BW3377**
	2	2 x electronic	out of AUX	out of AUX	1 x round cable/ connecting wires 0,25 mm²	1 AB address	to control Linak LA12 drives	**BWU3607**
	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	**BWU3639**
	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 mm²	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 mm²	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**

Figure	Inputs digital	Outputs digital	Input voltage (sensor supply) (1)	Output voltage (actuator supply) (2)	Connection (3)	ASi address (4)	Special function	Art. no.
	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 mm²	1 AB address	–	**BW3300**
	–	4 x electronic	–	out of AUX	1 x round cable/ connecting wires 0,25 mm²	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
General data					
Device type	input				
Connection					
ASi/AUX connection	profile cable and piercing				
Periphery connection	2 x round cable/connecting wires 0,34 mm²	4 x M12 cable sockets, straight, 5 poles		3 x round cable/connecting wires 0,5 mm²+ 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^2; max. 0,5 mm^2/AWG20
M12 wiring (1)	–	single wiring		–	
Round cable	0,5 m	0,3 m	2 m	1 m	–
	max. allowed tensile strain 10 N				
ASi					
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
AUX					
Operating voltage	–			⎓ 24 V (18 … 30 V_{DC})	
Max. current consumption	–			1 A	
Input					
Number	4				
Power supply	out of ASi			out of AUX	
Power supply of attached sensors, up to +40 °C	120 mA (3)			1 A	
Power supply of attached sensors, at +55 °C	80 mA (3)				
Power supply of attached sensors, at +60 °C	60 mA (3)				
Switching threshold	U<5 V (low) U>15 V (high)				
Display					
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 (4) off: no ASi voltage				
LED AUX (green)	–			on: 24 V_{DC} AUX off: no 24 V_{DC} AUX	
LEDs I1 ... In (yellow)	state of inputs I1 ... I4				
UL specifications (UL61010)					
Model (2)	PCO.DBA3-3374	PCO.DBA3-3632	PCO.DBA3-3633	PCO.DBA3-3608	PCC.DBC2-3349
External protection	The supply source to these devices shall meet the requirements of Class 2 of NEC, or Limited Energy of UL/CSA 61010-1, -2-201 or Limited Power Source of UL/CSA 60950/62368-1.				

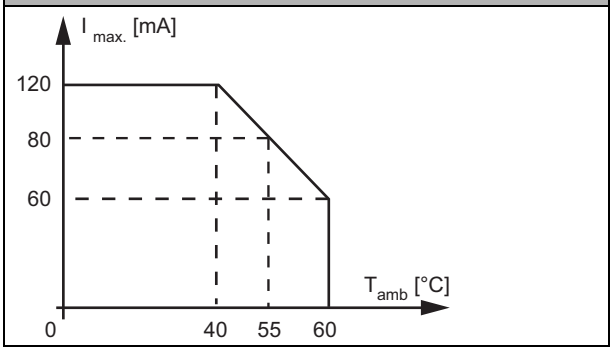
Article No.	BWU3374	BWU3632	BWU3633	BWU3608	BWU3349
Environment					
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529				
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes (5)			yes (10)	no (11)
Operating altitude	max. 2000 m				
Ambient temperature	-30 °C … +60 °C (3) (6)				-30 °C … +60 °C (no condensation permitted)
Storage temperature	-25 °C … +85 °C				
Intended environment	for indoor use only (7)				
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 (8) (9)				IP20
Overvoltage category	II				
Maximum tolerable shock and vibration stress	≤15*g*, 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.

(2) For reference see UL file E227214 “Programmable Controllers “Active Distributor Family””

(3)

BWU3374, BWU3632, BWU3633
Derating power supply of attached sensors



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

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

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

(7) Intended environment according to UL certificate for the use in the USA and Canada.

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

(9) Manufacturer specification, IP rating not evaluated by UL.

(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) 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
General data				
Device type		input		
Connection				
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 (1)		Y wiring		
Round cable		1 m		0,4 m
		max. allowed tensile strain 10 N		
ASi				
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	
AUX				
Operating voltage		–	⎓ 24 V (18 … 30 V_{DC})	
Max. current consumption		–	1 A	
Input				
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 (9)	1 A
	at +60 °C	–		
	at +70 °C		0,5 A (9)	
Switching threshold		U<5 V (low) U>15 V (high)		
Display				
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 (3) off: no ASi voltage		
LED AUX (green)		–	on: 24 V_{DC} AUX off: no 24 V_{DC} AUX	
LEDs I1 ... In (yellow)		state of inputs I1, I2		state of inputs I1 ... I4
UL specifications (UL61010)				
Model (2)		PCD.DBA1-3642	PCA.DBA1-3564	PCG.DBA1-3498
External protection		The supply source to these devices shall meet the requirements of Class 2 of NEC, or Limited Energy of UL/CSA 61010-1, -2-201 or Limited Power Source of UL/CSA 60950/62368-1.		

Article No.	BWU3642	BWU3564	BWU3498
Environment			
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 (4)	no (10)	
Operating altitude	max. 2000 m		
Ambient temperature	-30 °C … +55 °C (5)	-30 °C … +70 °C (5) (9)	
Storage temperature	-25 °C … +85 °C		
Intended environment	for indoor use only (6)		
Housing	plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)		
Pollution degree	2		
Protection category	IP67 (7) (8)		
Overvoltage category	II		
Maximum tolerable shock and vibration stress	≤15*g*, 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) For reference see UL file E227214 “Programmable Controllers “Active Distributor Family””

(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.

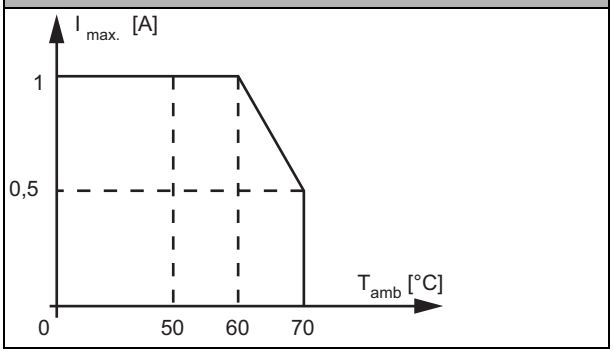
(5) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

(6) Intended environment according to UL certificate for the use in the USA and Canada.

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

(8) Manufacturer specification, IP rating not evaluated by UL.

(9) **BWU3564**
Derating power supply of attached sensors



(10) 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
General data					
Device type	Input/output				
Connection					
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 mm²	2 x M12-cable sockets, straight, 5 poles	1 x M12 cable socket, straight, 8 poles
M12 wiring (1)	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				
ASi					
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	
AUX					
Operating voltage	⎓ 24 V (18 … 30 V_{DC})				
Max. current consumption	3 A				
Input					
Number	4			3	4
Power supply	out of ASi			out of AUX	
Power supply of attached sensors, up to +40 °C	120 mA (3)			–	
Power supply of attached sensors, at +55 °C	80 mA (3)				
Power supply of attached sensors, at +60 °C	60 mA (3)				
Switching threshold	U<5 V (low) U>15 V (high)				
Output					
Number	4				
Power supply	out of AUX				
Max. output current, up to +40 °C	1 A per output, ∑ (Out) ≤3 A (4)				
Max. output current, at +55 °C	1 A per output, ∑ (Out) ≤2 A (4)				
Max. output current, at +60 °C	1 A per output, ∑ (Out) ≤1,5 A (4)				
Display					
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 (5) off: no ASi voltage				
LED AUX (green)	on: 24 V_{DC} AUX off: no 24 V_{DC} 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				
UL specifications (UL61010)					
Model (2)	PCO.DBA3-3555	PCO.DBA3-3507	PCO.DBA3-3317	PCO.DBA3-3785	PCO.DBA3-3377
External protection	The supply source to these devices shall meet the requirements of Class 2 of NEC, or Limited Energy of UL/CSA 61010-1, -2-201 or Limited Power Source of UL/CSA 60950/62368-1.				

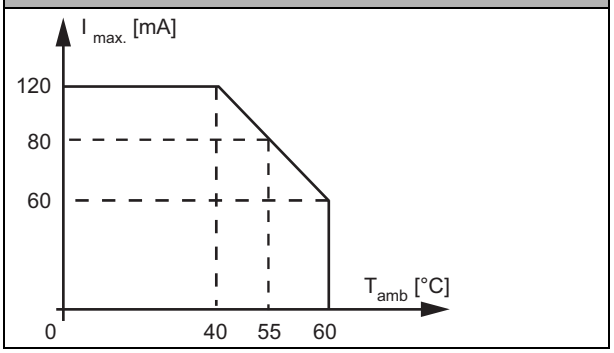
Article No.	BWU3555	BW3507	BWU3317	BWU3785	BW3377
Environment					
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529				
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes (6)	no (11)	yes (12)	yes (13)	yes (14)
Operating altitude	max. 2000 m				
Ambient temperature	-30 °C … +60 °C (3) (4) (7)				
Storage temperature	-25 °C … +85 °C				
Intended environment	for indoor use only (8)				
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)				
Pollution degree	2				
Protection category	IP67 (9) (10)				
Overvoltage category	II				
Maximum tolerable shock and vibration stress	≤15*g*, 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.

(2) For reference see UL file E227214 “Programmable Controllers “Active Distributor Family””

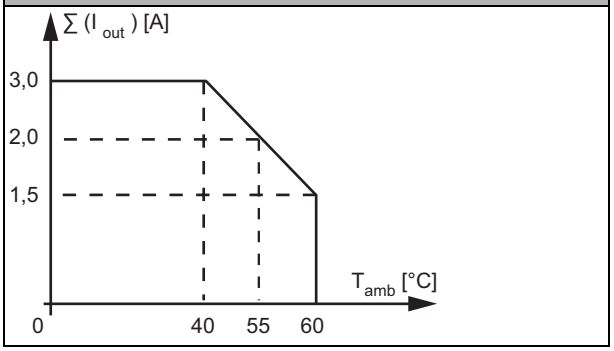
(3)

BWU3317, BW3507, BWU3555
Derating power supply of attached sensors



(4)

BWU3317, BW3507, BWU3555, BWU3785
Derating total current of outputs



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

(6) 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.

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

(8) Intended environment according to UL certificate for the use in the USA and Canada.

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

(10) Manufacturer specification, IP rating not evaluated by UL.

(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.

(12) 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.

(13) 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.

(14) 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**
General data			
Device type		Input/output	
Connection			
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^2; max. 0,5 mm^2/ AWG20
M12 wiring (1)		–	
Round cable		0,3 m	–
		max. allowed tensile strain 10 N	
ASi			
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
AUX			
Operating voltage		–	⎓ 24 V (18 … 30 V_{DC})
Max. current consumption		–	1 A
Input			
Number		1	3
Power supply		out of ASi	out of AUX
Power supply of attached sensors	up to +40 °C	120 mA, ∑ (In/Out) ≤120 mA (3)	∑ (In/Out) 1 A
	at +55 °C	80 mA, ∑ (In/Out) ≤80 mA (3)	
	at +60 °C	60 mA, ∑ (In/Out) ≤60 mA (3)	
Switching threshold		U<5 V (low) U>15 V (high)	
Output			
Number		4	1
Power supply		aus ASi	out of AUX
Max. output current	up to +40 °C	120 mA, ∑ (In/Out) ≤120 mA (3)	250 mA per output ∑ (In/Out) 1 A
	at +55 °C	80 mA, ∑ (In/Out) ≤80 mA (3)	
	at +60 °C	60 mA, ∑ (In/Out) ≤60 mA (3)	

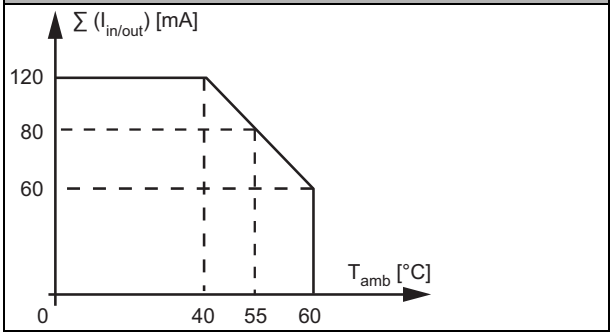
Article No.	BWU3534	BWU3414
Display		
LED ASI/FLT (red/green)	green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault (4) off: no ASi voltage	
LED AUX (green)	–	on: 24 V_{DC} AUX off: no 24 V_{DC} 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
UL specifications (UL61010)		
Model (2)	PCO.DBA3-3534	PCE.DBC2-3414
External protection	The supply source to these devices shall meet the requirements of Class 2 of NEC, or Limited Energy of UL/CSA 61010-1, -2-201 or Limited Power Source of UL/CSA 60950/62368-1.	
Environment		
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 (5)	no (10)
Operating altitude	max. 2000 m	
Ambient temperature	-30 °C … +60 °C (3) (6)	-30 °C … +60 °C (no condensation permitted)
Storage temperature	-25 °C … +85 °C	
Intended environment	for indoor use only (7)	
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)	
Pollution degree	2	
Protection category	IP67 (8) (9)	IP20
Overvoltage category	II	
Maximum tolerable shock and vibration stress	≤15*g*, 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.

(2) For reference see UL file E227214 “Programmable Controllers “Active Distributor Family””

(3)

BWU3534
Derating total current of inputs and outputs



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

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

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

(7) Intended environment according to UL certificate for the use in the USA and Canada.

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

(9) Manufacturer specification, IP rating not evaluated by UL.

(10) 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
General data			
Device type		input/output	
Connection			
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 (1)		–	
Round cable		I: 0,15 m, O: 0,50 m	I: 0,20 m O: 0,40 m
		max. allowed tensile strain 10 N	
ASi			
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	
Input			
Number		4	2
Power supply		out of ASi	
Power supply of attached sensors	up to +40 °C	200 mA, ∑ (In/Out) ≤200 mA (3)	
	at +55 °C	80 mA, ∑ (In/Out) ≤80 mA (3)	
	at +60 °C	60 mA, ∑ (In/Out) ≤60 mA (3)	
Switching threshold		U<5 V (low) U>15 V (high)	
Output			
Number		2	
Power supply		out of ASi	
Max. output current	up to +40 °C	200 mA, ∑ (In/Out) ≤200 mA (3)	
	at +55 °C	80 mA, ∑ (In/Out) ≤80 mA (3)	
	at +60 °C	60 mA, ∑ (In/Out) ≤60 mA (3)	
Display			
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 (4) 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	
UL specifications (UL61010)			
Model (2)		PCO.DBA3-3577	PCO.DBA3-3695
External protection		The supply source to these devices shall meet the requirements of Class 2 of NEC, or Limited Energy of UL/CSA 61010-1, -2-201 or Limited Power Source of UL/CSA 60950/62368-1.	

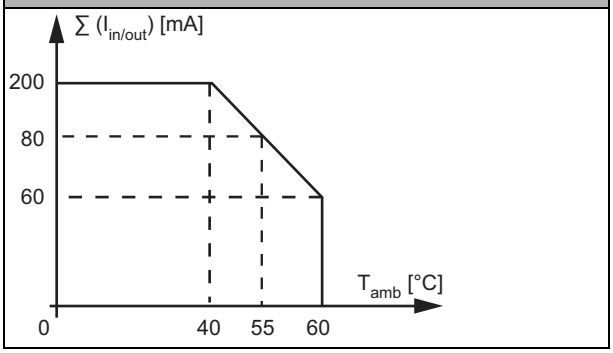
Article No.	BWU3577	BWU3695
Environment		
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529	
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes (5)	
Operating altitude	max. 2000 m	
Ambient temperature	-30 °C … +60 °C (3) (6)	
Storage temperature	-25 °C … +85 °C	
Intended environment	for indoor use only (7)	
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)	
Pollution degree	2	
Protection category	IP67 (8) (9)	
Overvoltage category	II	
Maximum tolerable shock and vibration stress	≤15*g*, 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.

(2) For reference see UL file E227214 “Programmable Controllers “Active Distributor Family””

(3)

BWU3577, BWU3695
Derating total current of inputs and outputs



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

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

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

(7) Intended environment according to UL certificate for the use in the USA and Canada.

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

(9) Manufacturer specification, IP rating not evaluated by UL.

Article No.		BWU3326	BWU3639	BWU3400
General data				
Device type		input/output		
Connection				
ASi/AUX connection		profile cable and piercing		
Periphery connection		2 x round cable/ connecting wires 0,25 mm²	1 x M12 cable socket, angled, 8 poles	1 x M12 cable socket, straight, 8 poles
M12 wiring (1)		–		
Round cable		1 m (including 0,30 m connecting wires)	0,3 m	1 m
		max. allowed tensile strain 10 N		
ASi				
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	90 mA
Max. current consumption without sensor/ actuator supply		80 mA	45 mA	40 mA
Input				
Number		4	1	2
Power supply		out of ASi		
Power supply of attached sensors	up to +40 °C	120 mA, ∑ (In/Out) ≤120 mA (3)	120 mA, ∑ (In/Out) ≤120 mA (3)	50 mA ∑ (In/Out) ≤50 mA
	at +55 °C	80 mA, ∑ (In/Out) ≤80 mA (3)	80 mA, ∑ (In/Out) ≤80 mA (3)	
	at +60 °C	60 mA, ∑ (In/Out) ≤60 mA (3)	60 mA, ∑ (In/Out) ≤60 mA (3)	–
Switching threshold		U<5 V (low) U>15 V (high)		
Output				
Number		4	3	2
Power supply		out of ASi		
Max. output current	up to +40 °C	120 mA, ∑ (In/Out) ≤120 mA (3)	120 mA, ∑ (In/Out) ≤120 mA (3)	50 mA ∑ (In/Out) ≤50 mA
	at +55 °C	80 mA, ∑ (In/Out) ≤80 mA (3) (7)		
	at +60 °C	60 mA, ∑ (In/Out) ≤60 mA (3) (7)		–
Display				
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 (4) 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
UL specifications (UL61010)				
Model (2)		PCO.DBA3-3326	PCO.DBA3-3639	PCD.DBA1-3400
External protection		The supply source to these devices shall meet the requirements of Class 2 of NEC, or Limited Energy of UL/CSA 61010-1, -2-201 or Limited Power Source of UL/CSA 60950/62368-1.		

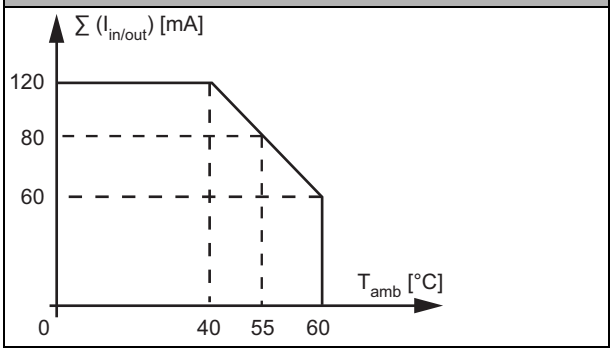
Article No.	BWU3326	BWU3639	BWU3400
Environment			
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529		
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes (5)		
Operating altitude	max. 2000 m		
Ambient temperature	-30 °C … +60 °C (3) (6) (7)		-30 °C …+55 °C (6)
Storage temperature	-25 °C … +85 °C		
Intended environment	for indoor use only (7)		
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 (8) (9)		
Overvoltage category	II		
Maximum tolerable shock and vibration stress	≤15*g*, 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.

(2) For reference see UL file E227214 “Programmable Controllers “Active Distributor Family””

(3)

BWU3326, BWU3639
Derating total current of inputs and outputs



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

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

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

(7) Intended environment according to UL certificate for the use in the USA and Canada.

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

(9) Manufacturer specification, IP rating not evaluated by UL.

Article No.	BWU3607
General data	
Device type	input/output
Connection	
ASi/AUX connection	profile cable and piercing
Periphery connection	1 x round cable/connecting wires0,25 mm²
Round cable	3 m (including 0,10 m connecting wires)
	max. allowed tensile strain 10 N

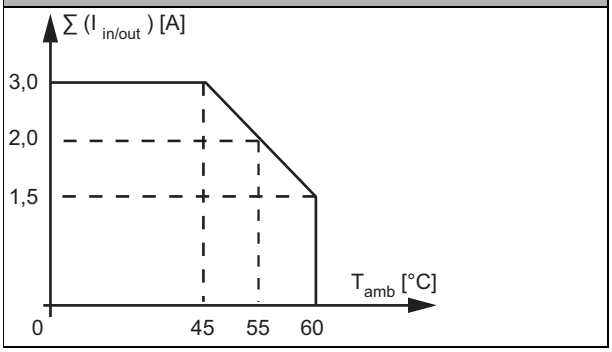
Article No.		BWU3607
ASi		
Profile		S-7.A.7 (ID1=7 fixed)
Address		1 AB address
Required Master profile		≥M4
As of ASi specification		3
Operating voltage		⎓ 30 V (18 … 31.6 V)
Max. current consumption		45 mA
Max. current consumption without sensor/ actuator supply		45 mA
AUX		
Operating voltage		⎓ 24 V (18 … 30 V_{DC})
Max. current consumption		3 A
Input		
Number		2
Power supply		out of AUX
Power supply of attached sensors	up to +45 °C	∑(In/Out) ≤ 3 A (2)
	at +55 °C	∑(In/Out) ≤ 2 A (2)
	at +60 °C	∑(In/Out) ≤ 1,5 A (2)
Switching threshold		U<5 V (low) U>15 V (high)
Output		
Number		2
Power supply		out of AUX
Max. output current	up to +45 °C	1 A ∑(In/Out) ≤ 3 A (2)
	at +55 °C	1A ∑(In/Out) ≤ 2 A (2)
	at +60 °C	1 A ∑(In/Out) ≤ 1,5 A (2)
Display		
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 (3) off: no ASi voltage
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX
LEDs I1 ... In (yellow)		state of inputs I1, I2
LED O1 ...On (yellow)		state of outputs O1, O2
UL specifications (UL61010)		
Model (1)		PCO.DBA3-3607
External protection		The supply source to these devices shall meet the requirements of Class 2 of NEC, or Limited Energy of UL/CSA 61010-1, -2-201 or Limited Power Source of UL/CSA 60950/62368-1.

Article No.	BWU3607
Environment	
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 (4)
Operating altitude	max. 2000 m
Ambient temperature	-30 °C … +60 °C (1) (5)
Storage temperature	-25 °C … +85 °C
Intended environment	for indoor use only (6)
Housing	plastic, for screw mounting,suitable for cable ducts (≥35 mm installation depth)
Pollution degree	2
Protection category	IP67 (7) (8)
Overvoltage category	II
Maximum tolerable shock and vibration stress	≤15*g*, 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) For reference see UL file E227214 “Programmable Controllers “Active Distributor Family””

(2)

BWU3607
Derating total current of inputs and outputs



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

(4) 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.

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

(6) Intended environment according to UL certificate for the use in the USA and Canada.

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

(8) Manufacturer specification, IP rating not evaluated by UL.

Article No.	BWU3342	BW3300	BWU3487	BWU4087
General data				
Device type	output			

Article No.	BWU3342	BW3300	BWU3487	BWU4087
Connection				
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^2; max. 0,5 mm^2/AWG20	1 x round cable/ connecting wires 0,25 mm²		1 x M12 cable socket, straight, 5 poles
Round cable	–	1 m	5 m	2 m
		max. allowed tensile strain 10 N		
ASi				
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			
AUX				
Operating voltage	⎓ 24 V (18 … 30 V_{DC})			
Max. current consumption	1 A			
Output				
Number	4			
Power supply	out of AUX			
Max. output current, up to +50 °C	250 mA per output, ∑ (Out) 1 A			
Max. output current, at +60 °C				
Max. output current, at +70 °C				
Display				
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 (2) off: no ASi voltage			
LED AUX (green)	on: 24 V_{DC} AUX off: no 24 V_{DC} AUX			
LED O1 ...On (yellow)	state of outputs O1 ... O4			
UL specifications (UL61010)				
Model (1)	PCB.DBC2-3342	PCB.DBA1-3300	PCB.DBA1-3487	PCB.DBA1-4087
External protection	The supply source to these devices shall meet the requirements of Class 2 of NEC, or Limited Energy of UL/CSA 61010-1, -2-201 or Limited Power Source of UL/CSA 60950/62368-1.			

Article No.	BWU3342	BW3300	BWU3487	BWU4087
Environment				
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 (3)			
Operating altitude	max. 2000 m			
Ambient temperature	-30 °C … +70 °C (4)			
Storage temperature	-25 °C … +85 °C			
Intended environment	for indoor use only (5)			
Housing	plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)			
Pollution degree	2			
Protection category	IP20	IP67 (6) (7)		
Overvoltage category	II			
Maximum tolerable shock and vibration stress	≤15*g*, 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) For reference see UL file E227214 “Programmable Controllers “Active Distributor Family””

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

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

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

(5) Intended environment according to UL certificate for the use in the USA and Canada.

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

(7) Manufacturer specification, IP rating not evaluated by UL.

Article No.	BWU3250	BWU3497	BWU3628	BWU3602
General data				
Device type	input/output			
Connection				
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 mm²	2 x round cable / connecting wires 0,34 mm²
M12 wiring (1)	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			

Article No.		BWU3250	BWU3497	BWU3628	BWU3602
ASi					
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			
AUX					
Operating voltage		⎓ 24 V (18 … 30 V_{DC})			
Max. current consumption		2 A	1 A		
Input					
Number		2			
Power supply		out of AUX			
Power supply of attached sensors	up to +50 °C	1 A (3)	∑(In/Out) 1 A (11)		
	at +60 °C				
	at +70 °C	0,5 A (3)	∑(In/Out) 0,5 A (11)		
Switching threshold		U<5 V (low) U>15 V (high)			
Output					
Number		1	2		
Power supply		out of AUX			
Max. output current	up to +50 °C	1 A (4)	∑(In/Out) 1 A (11)		
	at +60 °C				
	at +70 °C	0,5 A (4)	∑(In/Out) 0,5 A (11)		
Display					
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 (5) off: no ASi voltage			
LED AUX (green)		on: 24 V_{DC} AUX off: no 24 V_{DC} AUX			
LEDs I1 ... In (yellow)		state of inputs I1, I2			
LED O1 ...On (yellow)		state of output O1	state of outputs O1, O2		
UL specifications (UL61010)					
Model (2)		PCA.DBA1-3250	PCF.DBA1-3497	PCF.DBA1-3628	PCF.DBA1-3602
External protection		The supply source to these devices shall meet the requirements of Class 2 of NEC, or Limited Energy of UL/CSA 61010-1, -2-201 or Limited Power Source of UL/CSA 60950/62368-1.			

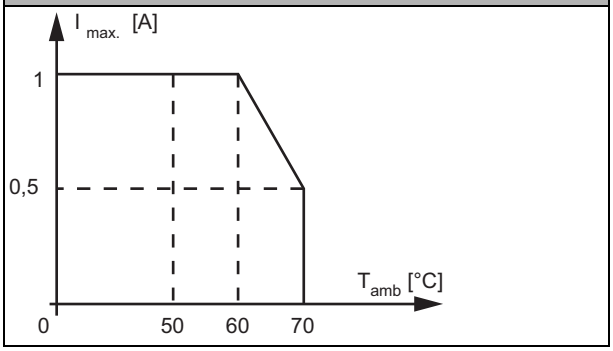
Article No.	BWU3250	BWU3497	BWU3628	BWU3602
Environment				
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529			
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	no (6)	yes (12)	yes (13)	no (14)
Operating altitude	max. 2000 m			
Ambient temperature	-30 °C … +70 °C (3) (4) (7) (11)			
Storage temperature	-25 °C … +85 °C			
Intended environment	for indoor use only (8)			
Housing	plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)			
Pollution degree	2			
Protection category	IP67 (9) (10)			
Overvoltage category	II			
Maximum tolerable shock and vibration stress	≤15*g*, 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) For reference see UL file E227214 “Programmable Controllers “Active Distributor Family””

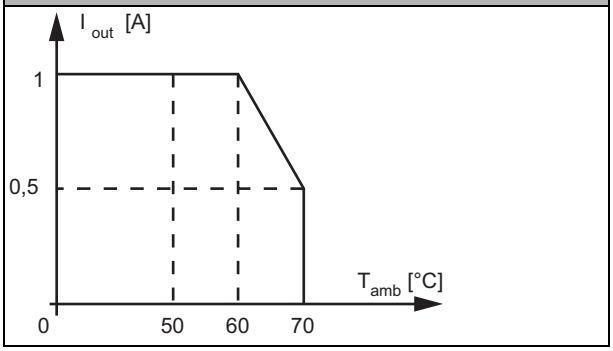
(3)

BWU3250
Derating power supply of attached sensors



(4)

BWU3250
Derating current of output



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

(6) 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.

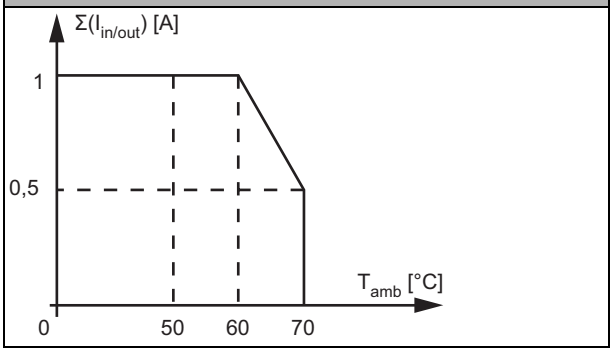
(7) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

(8) Intended environment according to UL certificate for the use in the USA and Canada.

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

(10) Manufacturer specification, IP rating not evaluated by UL.

(11) **BWU3497, BWU3602, BWU3628**
Derating total current of inputs and outputs



(12) 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.

(13) 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.

(14) 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.	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	●	–	●
BW3507	●	–	●
BWU3534	●	–	–
BWU3555	●	–	●
BWU3564	●	–	●
BWU3577	●	–	–
BWU3602	●	●	●
BWU3607	–	–	●
BWU3608	–	–	●
BWU3628	●	●	●
BWU3632	●	–	–
BWU3633	●	–	–
BWU3639	●	–	–
BWU3642	●	–	–
BWU3695	●	–	–
BWU3785	–	–	●
BWU4087	–	●	●

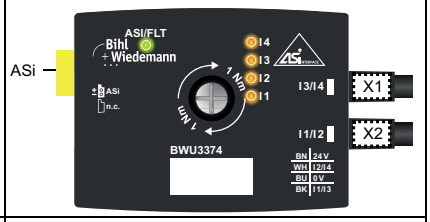
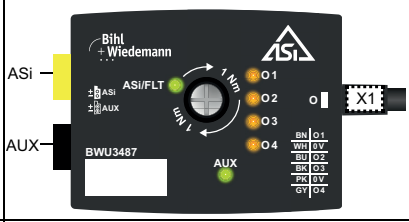
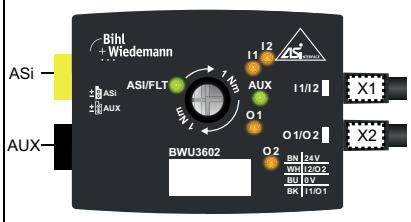
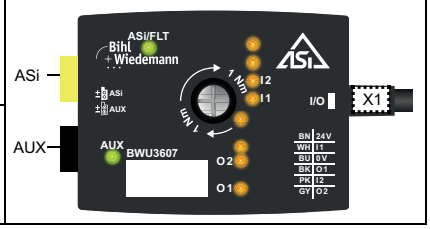
Programming	ASi bit assignment			
	D3	D2	D1	D0
	input			
BWU3534, BWU3639	I4	–	–	–
BWU3250, BWU3400, BWU3497, BWU3564, BWU3602, BWU3607, BWU3628, BWU3642, BWU3695	–	–	I2	I1
BWU3414, BWU3785	–	I3	I2	I1
BWU3317, BWU3326, BWU3349, BWU3374, BW3377, BWU3498, BW3507, BWU3555, BWU3577, BWU3608, BWU3632, BWU3633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

Programming	ASi bit assignment			
	parameter bit			
	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, BWU4087			not used	
BWU3374, BWU3400, BWU3534, BWU3577, 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

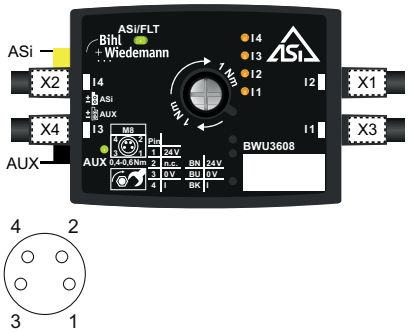
Signal name	Explanation
Ix	digital input x
Ox	digital output x
$24V_{ext\ out}$	power supply, out of external voltage, positive pole (AUX, actuator supply)
$0V_{ext\ out}$	power supply, out of external voltage, negative pole (AUX, actuator supply)
$24V_{out\ of\ ASi}$	power supply, out of ASi, positive 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

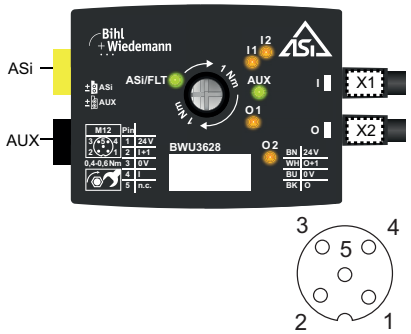
Connections: round cable/connecting wires

Article no.	connec.	BN	WH	BU	BK	PK	GY	RD	GN	YE	OG	
BWU3374	X1	24 V out of ASi	I4	0 $V_{out\ of\ ASi}$	I3	–	–	–	–	–	–	
	X2	24 V out of ASi	I2	0 $V_{out\ of\ ASi}$	I1							
BW3300 / BWU3487	X1	O1	0 V_1 ext.out	O2	O3	0 V_2 ext.out	O4	–	–	–	–	
BWU3317	X1	I1	I2	I3	I4	0 V_1 out of ASi	24 V out of ASi	–	–	–	–	
	X2	O1	0 V_2 ext out	O2	O3	0 V_3 ext out	O4					
BWU3326	X1	I1	I2	I3	I4	0 V_1 out of ASi	24 V out of ASi	–	–	–	–	
	X2	O1	0 V_2 out of ASi	O2	O3	0 V_3 out of ASi	O4					
BWU3602	X1	24 V ext out	I2	0 V ext out	I1	–	–	–	–	–	–	
	X2	24 V ext out	O2	0 V ext out	O1							
BWU3607	X1	24 V ext out	I1	0 $V_{ext\ out}$	O1	I2	O2	–	–	–	–	
	The reference potential of sensors/actors has to be connected with the reference potential of the active distributor (AUX).											

Connections: round cable/connecting wires

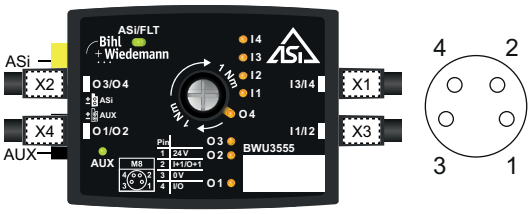
Article no.	connec.	BN	WH	BU	BK	PK	GY	RD	GN	YE	OG
BWU3608	X1	24 V ext out	–	0 V ext out	I2	–	–	–	–	–	–
	X3	24 V ext out	–	0 V ext out	I1						
	X4	24 V ext out	–	0 V ext out	I3						
	M8 connec-tion	Pin1	Pin2	Pin3	Pin4						
	X2	24 V ext out	n.c.	0 V ext out	I4						
BWU3628	X2	24 V ext out	O2	0 V ext out	O1	–	–	–	–	–	–
	M12 connec-tion	Pin1	Pin2	Pin3	Pin4	Pin5					
	X1	24 V ext out	I2	0 V ext out	I1	n.c.					

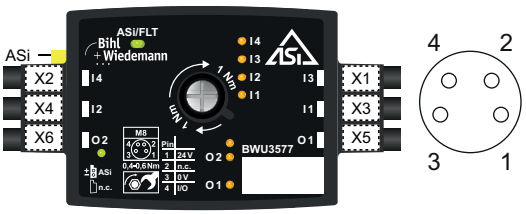




Connections: M8 cable sockets, straight, 4 poles

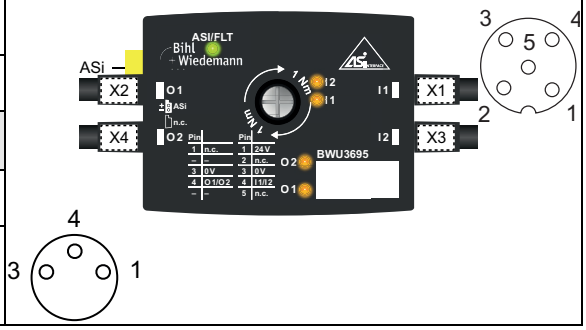
Article no.	M8 connection	Pin1	Pin2	Pin3	Pin4
BWU3555	X1	24V out of ASi	I4	0V out of ASi	I3
	X2	n.c.	O4	0 V ext out	O3
	X3	24V out of ASi	I2	0V out of ASi	I1
	X4	n.c.	O2	0 V ext out	O1
BWU3577	X1	24 V out of ASi	n.c.	0 V out of ASi	I3
	X2	24 V out of ASi	n.c.	0 V out of ASi	I4
	X3	24 V out of ASi	n.c.	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





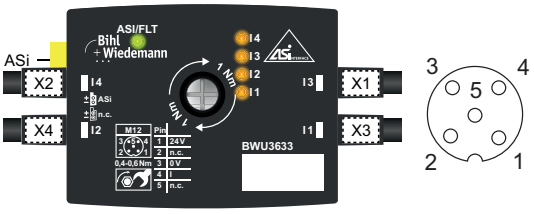
Connections: M8, M12 cable sockets

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	–



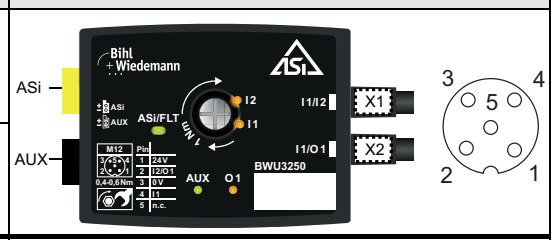
Connections: M12 cable sockets, straight, 5 poles

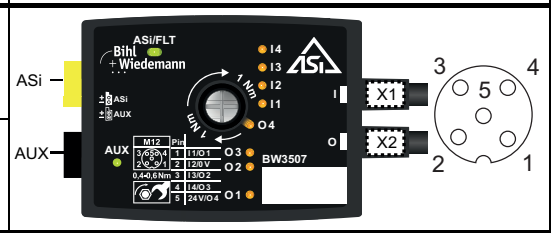
Article no.	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5
BWU3633	X1	24V out of ASi	n.c.	0V out of ASi	I3	n.c.
	X2	24V out of ASi	n.c.	0V out of ASi	I4	n.c.
	X3	24V out of ASi	n.c.	0V out of ASi	I1	n.c.
	X4	24V out of ASi	n.c.	0V out of ASi	I2	n.c.

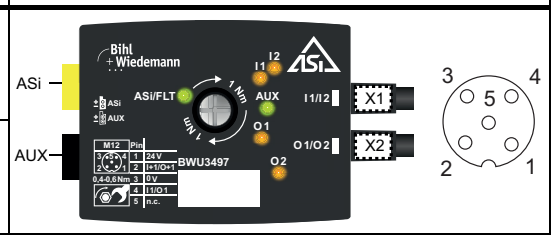


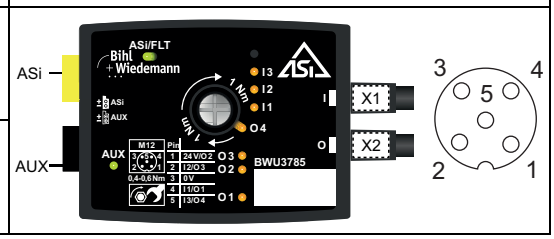
Connections: M12 cable sockets, straight/angled, 5 poles

Article no.	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5
BWU3250	X1	24 $V_{ext\ out}$	I2	0 $V_{ext\ out}$	I1	n.c.
	X2	24 $V_{ext\ out}$	O1	0 $V_{ext\ out}$	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 $V_{ext\ out}$	I2	0 $V_{ext\ out}$	I1	n.c.
	X2	24 $V_{ext\ out}$	O2	0 $V_{ext\ out}$	O1	n.c.
BWU3785	X1	24 V out of AUX	I2	0 $V_{ext\ out}$	I1	I3
	X2	O2	O3	0 $V_{ext\ out}$	O1	O4



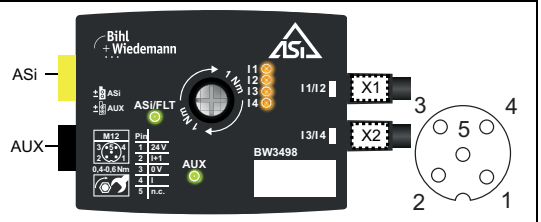


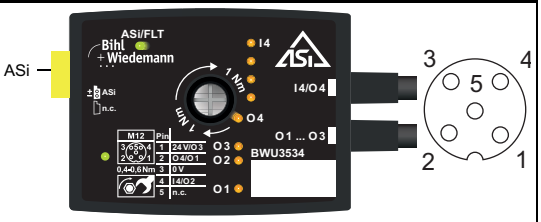


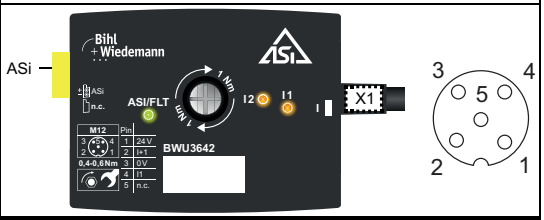


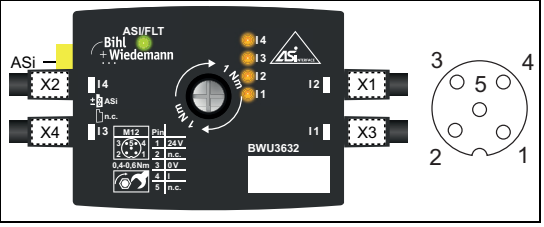
Connections: M12 cable sockets, straight/angled, 5 poles

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
	The reference potential of sensors/actors has to be connected with the reference potential of the active distributor (AUX).					
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.



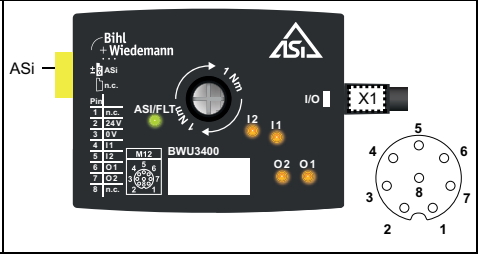


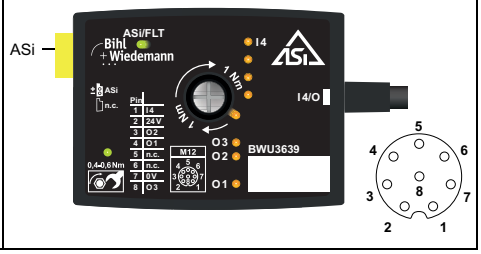


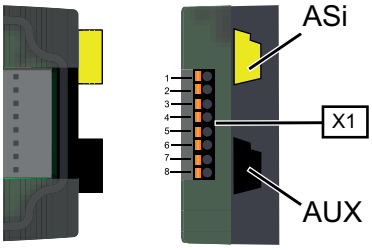


Connections:: M12 cable sockets, straight, 8 poles

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.

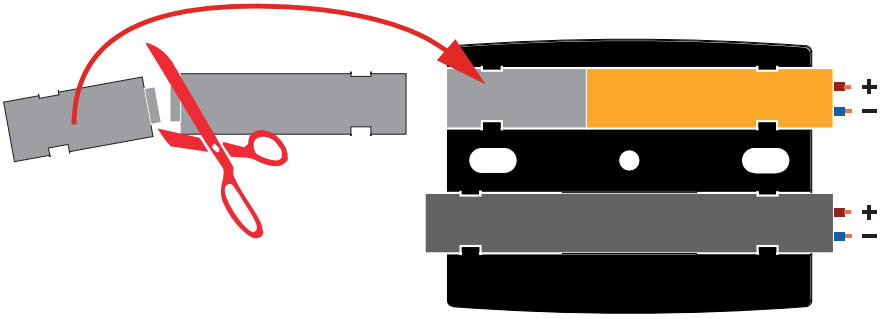


Connections: M12 cable sockets, straight/angled, 8 poles										
Article no.	**connection**	**Pin1 (WH)**	**Pin2 (BN)**	**Pin3 (GN)**	**Pin4 (YE)**	**Pin5 (GY)**	**Pin6 (PK)**	**Pin7 (BU)**	**Pin8 (RD)**	
BW3377	**X1**	I1	I2	I3	I4	O1	O2	O3	O4	
	The reference potential of sensors/actors has to be connected 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_1 ext.out	0 V_1 ext.out	24 V_2 ext.out	0 V_2 ext.out	
BWU3342	O1	0 V 1 ext out	O2	0 V_2 ext out	O3	0 V_3 ext out	O4	0 V_4 ext out	
BWU3414	I1	I2	I3	O1	24 V_1 ext.out	0 V_1 ext.out	24 V_2 ext.out	0 V_2 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)**