

2 x connectors for profile cable

Periphery connection via
1 x M12 cable socket, straight, 5 poles

1 x connection for ASi addressing device



(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 x electronic	-	out of AUX	1 x round cable M12 cable socket, straight, 5-poles, 1 x ASi addressing cable socket	1 AB address	-	BWU4954 BWU4955

- (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 and abrasion resistant, appropriate for conveyor chains				

- (4) **ASi address:** 1 AB address (max. 62 AB addresses/ASi network), 2 AB addresses (max. 31 modules with 2 AB addresses), Single addresses (max. 31 Single addresses/ASi network), mixed use allowed.
For modules with two ASi nodes the second ASi node is turned off as long as the first ASi node is addressed to address "0".
Upon request, ASi nodes are available with specific ASi address profiles.

Article No.		BWU4954		BWU4955	
General data					
Device type		output			
Connection					
ASi /AUX connection		profile cable and piercing technology			
Periphery connection		1 x round cable, M12 cable socket, straight, 5 poles			
Round cable		O: 3 m		O: 5 m	
		ASi addressing device: 0,05 m		ASi addressing device: 0,05 m	
		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			
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, Σ (Out) 1 A			
	at +60 °C				
	at +70 °C				
Display					
LED ASi/FLT (red/green)		green: ASi voltage on, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 green/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.DBA1-4954		PCB.DBA1-4955	
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.	BWU4954	BWU4955
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 ⁽³⁾	
Operating altitude	max. 2000 m	
Ambient temperature	-30 °C ... +70 °C	
Storage temperature	-25 °C ... +85 °C	
Intended environment	for indoor use only ⁽⁴⁾	
Housing	plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)	
Pollution degree	2	
Protection category	IP54	
Overvoltage category	II	
Tolerable loading referring to humidity	according to EN 61131-2	
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude	
Insulation voltage	≥ 500 V	
Weight	160 g	220 g
Dimensions (W / H / D) in mm	60 / 45 / 19	

(1) See reference of UL file E227214 "Programmable Controllers "Active Distributor Family""

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

(3) BWU4954 from Ident. No. ≥21914, BWU4955 from Ident. No. ≥21915; the module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.

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

Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU4954	–	•	•
BWU4955	–	•	•

Programming	ASi bit assignment			
	parameter bit			
	P3	P2	P1	P0
BWU4954, BWU4955	not used	0= on / 1= off (synchronous I/O mode)	not used	0= off / 1= on (Watchdog)

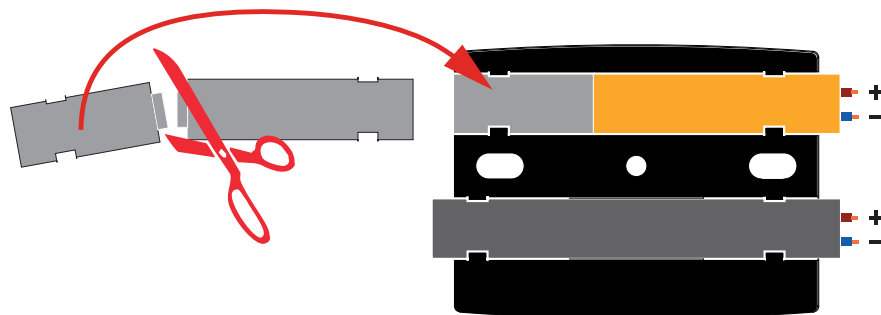
Pin assignment

Signal name	Explanation
Ox	digital output x
0V _{ext out}	power supply, out of external voltage, negative pole (AUX, actuator supply)
ASi +, ASi -	connection to ASi bus
n.c. (not connected)	not connected

Connections: M12 cable socket, straight, 5 poles						
Artikel Nr.	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5
BWU4954, BWU4955	X1	O1	O2	O3	O4	0 V ext out
	ADDR	connection for ASi-3 addressing plug				
	The reference potential of sensors/actors has to be connected with the reference potential of the active distributor (AUX).					



Line termination with sealing profile



Accessories:

- Sealing profile IP67 (IDC plug), 60 mm (art. no. BW3282)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4925)