

Active Distributor ASi, IP67

2 x connectors for profile cable

Periphery connection via
1 x M12 cable socket, straight, 8 poles

to connect Schmersal AZM161 and
Fortress amGardPro to ASi



(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.
	1	–	out of AUX	–	1 x M12 cable socket, straight, 8 poles	1 AB address	to connect Schmersal AZM161 and Fortress amGardPro to ASi	BWU4905

(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.	BWU4905
General data	
Device type	input/output
Connection	
ASi/AUX connection	profile cable and piercing technology
Periphery connection	1 x M12 cable socket, straight, 8 poles
Round cable	2 m
	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	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
Input	
Number	1
Power supply	out of AUX
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 ⁽¹⁾ 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
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 ⁽²⁾
Operating altitude	max. 2000 m
Ambient temperature	-30 °C ... +70 °C ⁽¹⁾ ⁽³⁾
Storage temperature	-25 °C ... +85 °C
Housing	plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)
Pollution degree	2
Protection category	IP67 ⁽⁴⁾
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude
Insulation voltage	≥ 500 V
Weight	100 g
Dimensions (W / H / D) in mm	60 / 45 / 19

⁽¹⁾ see table "Peripheral fault indication"

⁽²⁾ 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.

⁽³⁾ Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.

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

Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU4905	-	-	•

Programming	ASi bit assignment			
	D3	D2	D1	D0
	input			
BWU4905	-	-	-	I1
	output			
BWU4905	-	-	-	-

Programming	ASi bit assignment			
	parameter bit			
	P3	P2	P1	P0
BWU4905	not used	0= on / 1= off (synchronous I/O mode)	0= off / 1= on (peripheral fault, if AUX missing)	0= off / 1= on (Watchdog)

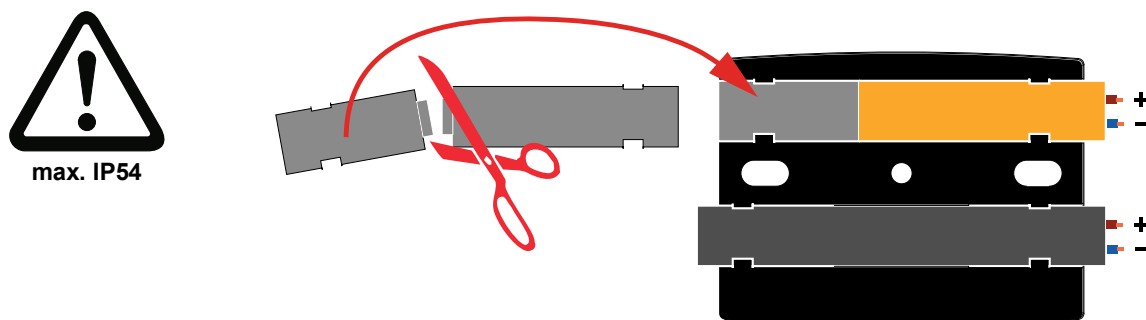
Pin assignment

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:: M12 cable sockets, straight, 8 poles

Article no.	M8 connection	Pin1 (WH)	Pin2 (BN)	Pin3 (GN)	Pin4 (YE)	Pin5 (GY)	Pin6 (PK)	Pin7 (BU)	Pin8 (RD)	
BWU4905	X1	n.c.	n.c.	n.c.	n.c.	n.c.	0 V ext. out	n.c.	I1	

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)
- Bihl+Wiedemann Safety Suite License - Safety Software for Configuration, Diagnostics and Commissioning (art. no. BW2916)