

# Active Distributor ASI, IP67

2 x connectors for profile cable

### Periphery connection

- via connecting wires 0,34 mm<sup>2</sup>
- M12 cable sockets



(Figure similar)

Figure	Type	Inputs digital	Outputs digital	Input voltage (sensor supply) (1)	Output voltage (actuator supply) (2)	ASi connection (3)	Connection (4)	ASi address (5)	Special function	Art. no.
	IP67, depth 19 mm	2	1 x electronic	out of AUX	out of AUX	ASi profile cable	1 x M12 cable socket, straight, 5 poles, 1 x round cable/ connecting wires 0,34 mm <sup>2</sup>	1 AB address	–	<b>BWU4879</b>

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

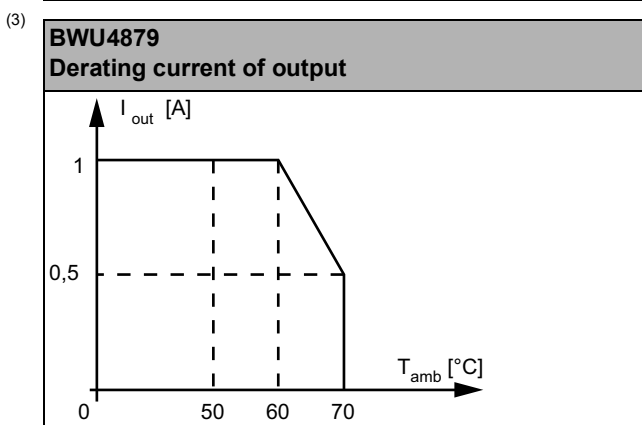
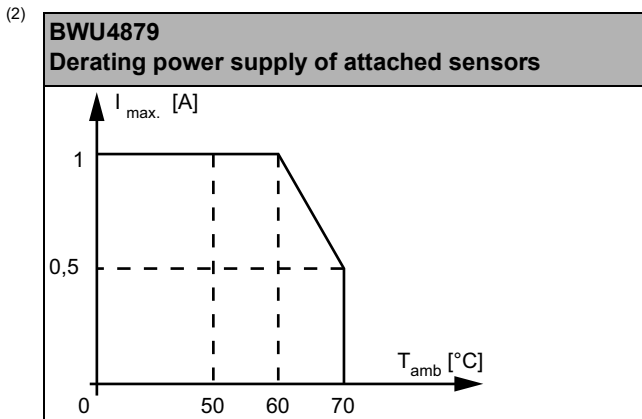
M12 cable socket, angled	M12 cable socket, straight	M8 cable socket, straight	round cable / connecting wires	Push in terminals
PUR line: oil resistant				

- (5) **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.

<b>Article No.</b>		<b>BWU4879</b>
<b>General data</b>		
Device type		input/output
<b>Connection</b>		
ASi/AUX connection		profile cable and piercing
Periphery connection		1 x M12 cable socket, straight, 5 poles, 1 x round cable/connecting wires 0,34 mm <sup>2</sup>
M12 wiring <sup>(1)</sup>		single wiring
Round cable		1 m allowed tensile strain 10 N
<b>ASi</b>		
Profile		S-7.A.E (ID1=7 default)
Address		1 AB address
Required Master profile		≥M3
As of ASi specification		2.1
Operating voltage		30 V (18 ... 31.6 V)
Max. current consumption		35 mA
Max. current consumption without sensor/ actuator supply		35 mA
<b>AUX</b>		
Operating voltage		24 V (18 ... 30 V <sub>DC</sub> )
Max. current consumption		2 A
<b>Input</b>		
Number		2
Power supply		out of AUX
Power supply of attached sensors	up to +50 °C	1 A <sup>(2)</sup>
	at +60 °C	
	at +70 °C	0,5 A <sup>(2)</sup>
Switching threshold		U < 5 V (low) U > 15 V (high)
<b>Output</b>		
Number		1
Power supply		out of AUX
Max. output current	up to +50 °C	1 A <sup>(3)</sup>
	at +60 °C	
	at +70 °C	0,5 A <sup>(3)</sup>
<b>Display</b>		
LED ASi/FLT (red/green)		green: ASi voltage on, online green/red: ASi voltage on, but offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault <sup>(4)</sup> off: no ASi voltage
LED AUX (green)		on: 24 V <sub>DC</sub> AUX off: no 24 V <sub>DC</sub> AUX
LEDs I1 ... In (yellow)		state of inputs I1, I2
LED O1 ...On (yellow)		state of output O1

<b>Article No.</b>	<b>BWU4879</b>
<b>Environment</b>	
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	no <sup>(5)</sup>
Operating altitude	max. 2000 m
Ambient temperature	-30 °C ... +70 °C <sup>(2)</sup> <sup>(3)</sup> <sup>(6)</sup>
Storage temperature	-25 °C ... +85 °C
Housing	plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)
Pollution degree	2
Protection category	IP67 <sup>(7)</sup>
Maximum tolerable shock and vibration stress	≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude
Insulation voltage	≥ 500 V
Weight	100 g
Dimensions (W / H / D) in mm	60 / 45 / 19

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



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

- (6) Down to -25 °C with flexibly mounted cable, -30 °C only with fixed mounted cable.
- (7) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67

Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU4879	•	•	•

Programming	ASi bit assignment			
	D3	D2	D1	D0
	input			
BWU4879	–	–	I2	I1
	output			
BWU4879	–	–	–	O1

Programming	ASi bit assignment			
	parameter bit			
	P3	P2	P1	P0
BWU4879	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
I <sub>x</sub>	digital input x
O <sub>x</sub>	digital output x
24V <sub>ext out</sub>	power supply, out of external voltage, positive pole (AUX, actuator supply)
0V <sub>ext out</sub>	power supply, out of external voltage, negative pole (AUX, actuator supply)
24V <sub>out of ASi</sub>	power supply, out of ASi, positive pole (sensor supply)
0V <sub>out of ASi</sub>	power supply, out of ASi, negative pole (sensor supply)
ASi +, ASi -	connection to ASi bus
n.c. (not connected)	not connected

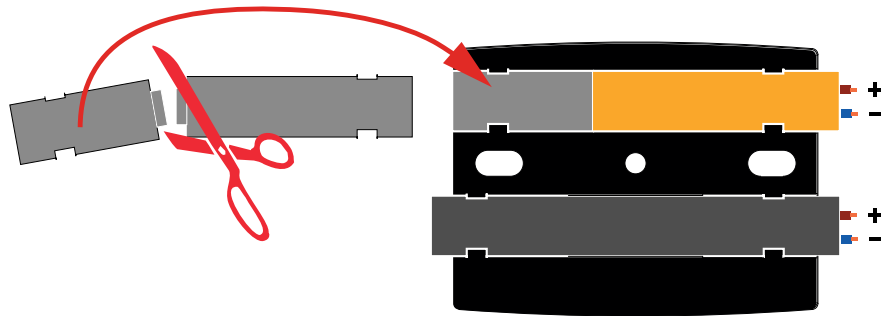
Connections: 1 x M12 connection, 1 x round cable/connecting wires 0,34 mm <sup>2</sup>						
Article no.	M12 connection	Pin1	Pin2	Pin3	Pin4	Pin5
BWU4879	X1	24 V <sub>ext out</sub>	n.c.	0 V <sub>ext out</sub>	I2	n.c.
	round cable/ connection wires	BN	WH	BU	BK	–
	X2	24 V <sub>ext out</sub>	I1	0 V <sub>ext out</sub>	O1	–



## 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. BW4708)