

Active Distributor ASi, IP67

1 x connector for profile cable

Periphery connection via
connecting wires 0,25 mm²



(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	—	4 x electronic	—	out of AUX	ASi profile cable	1 x round cable/ connecting wires 0,25 mm ²	1 AB address	—	BWU4766

- (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.

Article No.	BWU4766
General data	
Device type	output
Connection	
ASi/AUX connection	profile cable and piercing
Periphery connection	1 x round cable/connecting wires 0,25 mm ²
Round cable	3 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

Article No.		BWU4766
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, node online green/red: ASi voltage on, but 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)		-
LED O1 ...On (yellow)		state of outputs O1 ... O4
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 ⁽²⁾
Operating altitude		max. 2000 m
Ambient temperature		-30 °C ... +70 °C (no condensation permitted)
Storage temperature		-25 °C ... +85 °C
Intended environment		for indoor use only ⁽³⁾
Housing		plastic, for screw mounting, suitable for cable ducts (≥19 mm installation depth)
Pollution degree		2
Protection category		IP67 ⁽⁴⁾ ⁽⁵⁾
Overvoltage category		II
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 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.

⁽³⁾ Intended environment according to UL certificate for the use in the USA and Canada.

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

⁽⁵⁾ Manufacturer specification, IP rating not evaluated by UL.

UL-specifications (UL61010)	
BWU4766	
Model ⁽¹⁾	PCB.DBA1-4766
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.

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

Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU4766	–	•	•

Programming	ASi bit assignment			
	D3	D2	D1	D0
	output			
BWU4766	O4	O3	O2	O1

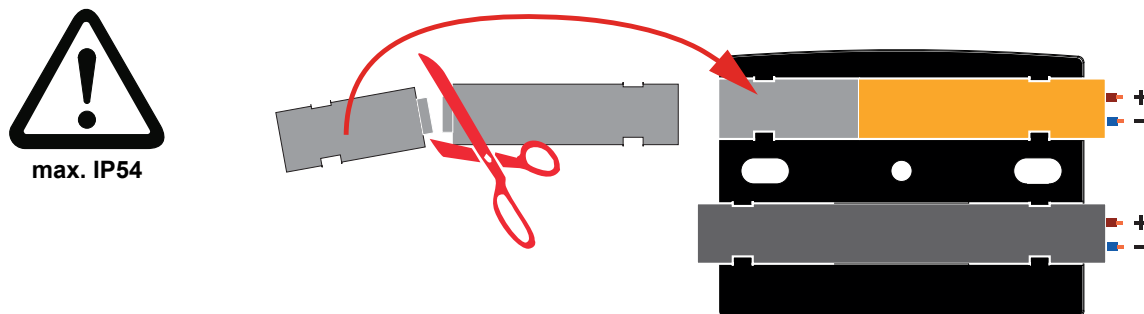
Programming	ASi bit assignment			
	parameter bit			
	P3	P2	P1	P0
BWU4766	not used	0= on / 1= off (synchronous I/O mode)	not used	0= off / 1= on (Watchdog)

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: round cable/connecting wires 0,25 mm ²											
Article no.	connec.	BN	WH	BU	BK	PK	GY	RD	GN	YE	OG
BWU4766	X1	O1	0 V ₁ ext.out	O2	O3	0 V ₂ ext.out	O4	–	–	–	–

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)