

Active Distributor ASi, IP67, 3I/3O



1 x connector for profile cable

Periphery connection via

- M12 cable socket



(Figure similar)



Figure	Inputs digital	Outputs digital	Input voltage (sensor supply) (1)	Output voltage (actuator supply) (2)	ASi connection (3)	Connection (4)	ASi address (5)	Art. no.
	3	3 x electronic	out of ASi	out of ASi	ASi profile cable	1 x M12 cable socket, straight, 8 poles	1 AB address	BWU4892

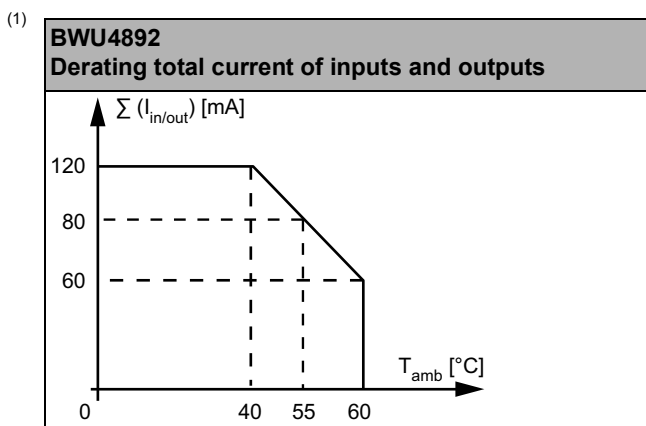
- (1) **Input voltage (sensor supply):** inputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, inputs shall not be connected to earth or to external potential.
- (2) **Output voltage (actuator supply):** outputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied 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.		BWU4892
General data		
Device type		input/output
Connection		
ASi/AUX connection		profile cable and piercing
Periphery connection		1 x M12 cable socket, straight, 8 poles
Round cable		1 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
Operating voltage		30 V (18 ... 31.6 V)
Max. current consumption		165 mA
Max. current consumption without sensor/ actuator supply		45 mA
Input		
Number		3
Power supply		out of ASi
Power supply of attached sensors	up to +40 °C	120 mA, $\sum (In/Out) \leq 120 \text{ mA}^{(1)}$
	at +55 °C	80 mA, $\sum (In/Out) \leq 80 \text{ mA}^{(1)}$
	at +60 °C	60 mA, $\sum (In/Out) \leq 60 \text{ mA}^{(1)}$
Switching threshold		U < 5 V (low) U > 15 V (high)
Output		
Number		3 x electronic
Power supply		out of ASi
Max. output current	up to +40 °C	120 mA, $\sum (In/Out) \leq 120 \text{ mA}^{(1)}$
	at +55 °C	80 mA, $\sum (In/Out) \leq 80 \text{ mA}^{(1)}$
	at +60 °C	60 mA, $\sum (In/Out) \leq 60 \text{ mA}^{(1)}$
Display		
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 ⁽²⁾ off: no ASi voltage	
LEDs I1 ... In (yellow)	state of inputs I1 ... I3	
LED O1 ... On (yellow)	state of outputs O1 ... O3	

Article No.	BWU4892
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 ... +60 °C ^{(1) (4)}
Storage temperature	-25 °C ... +85 °C
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)
Pollution degree	2
Protection category	IP67 ⁽⁵⁾
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 / 35



(2) see table "Peripheral fault indication"

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

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

(5) 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
BWU4892	•	-	-

Programming	ASi bit assignment			
	D3	D2	D1	D0
	input			
BWU4892	-	I3	I2	I1
	output			
BWU4892	-	O3	O2	O1

Programming	ASi bit assignment			
	parameter bit			
	P3	P2	P1	P0
BWU4892	not used	0= on / 1= off (synchronous I/O mode)	not used	0= off / 1= on (Watchdog)

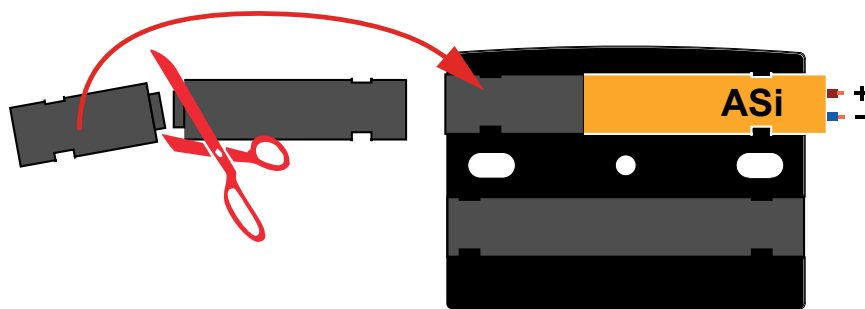
Pin assignment

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: M12 cable socket, straight, 8 poles

Article no.	connec.	Pin1 (WH)	Pin2 (BN)	Pin3 (GN)	Pin4 (YE)	Pin5 (GY)	Pin6 (PK)	Pin7 (BU)	Pin8 (RD)
BWU4892	X1	24 V out of ASi	I1	I2	I3	O1	O2	O3	0 V out of ASi

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. BW4708)