

Active Distributors ASi, IP67

1 x connector for profile cable

Periphery connection
Cable sockets M12, angled, 5 poles



(Figure similar)

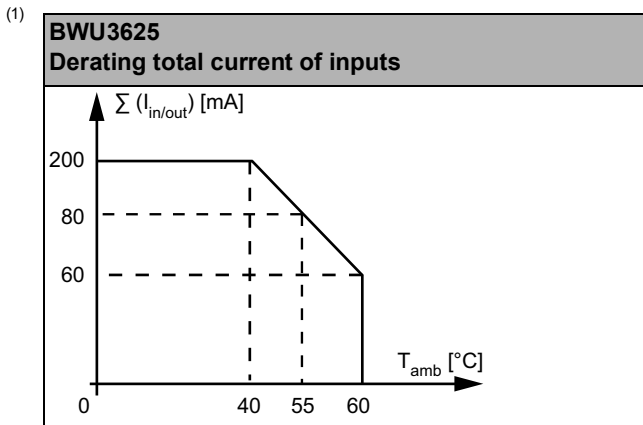
Figure	Type	Inputs digital	Outputs digital	Input voltage (sensor supply) ⁽¹⁾	Output voltage (actuator supply) ⁽²⁾	ASi connection ⁽³⁾	Connection ⁽⁴⁾	Round cable	ASi address ⁽⁵⁾	Art. no.
	IP67, depth: 35 mm	1	—	out of ASi	—	ASi profile cable	1 x M12 cable socket, angled, 5 poles	2 m	1 single address	BWU3625

- (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 and abrasion resistant, appropriate for conveyor chains				

- (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 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.		BWU3625
General data		
Device type	input	
Connection		
ASi/AUX connection	profile cable and piercing	
Periphery connection	1 x M12 cable socket, angled, 5 poles	
Round cable	2 m, max. allowed tensile strain 10 N	
ASi		
Profile	S-1.1.0 (ID1=0 default)	
Address	1 single address	
Required Master profile	≥M0	
As of ASi specification	2.0	
Operating voltage	30 V (18 ... 31.6 V)	
Max. current consumption	245 mA	
Max. current consumption without sensor/ actuator supply	45 mA	
Input		
Number	1 (I2, I3 = permanent high)	
Power supply	out of ASi	
Power supply of attached sensors	up to +40 °C	200 mA, $\sum (In/Out) \leq 200 \text{ mA}^{(1)}$
	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)	
Display		
LED ASi/FLT (red/green)	green: ASi voltage on, ASi node online red: ASi voltage on, but ASi node offline yellow/red flashing: address 0 red/green flashing: peripheral fault ⁽²⁾ off: no ASi voltage	
LEDs I1 (yellow)	state of inputs I1	
Environment		
Applied standards	EN 61000-2 EN 61000-3 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⁾	
Storage temperature	-30 °C ... +85 °C	
Housing	plastic, for screw mounting, suitable for cable ducts (yes, depth: ≥35 mm)	
Protection category	IP67	
Maximum tolerable shock and vibration stress	≤15g, T ≤ 11 ms 10 ... 55 Hz, 0,5 mm amplitude	
Insulation voltage	≥500 V	
Weight	50 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.

Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU3625	•	-	-

UL-specifications (UL61010)	
External protection	An isolated source with a secondary open circuit voltage of $\leq 30 V_{DC}$ with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.
In general	UL mark does not provide UL certification for any functional safety rating or aspects of the above devices.

Programming	ASi bit assignment			
	D3	D2	D1	D0
	input			
BWU3625	-	Permanent high	Permanent high	I1
	parameter bit			
	P3	P2	P1	P0
BWU3625	not used	0= on / 1= off (synchronous I/O mode)	0= on / 1= off (data input filter 128 μ s)	not used

Pin assignment

Signal name	Explanation
I _x	digital input x
24 V _{ext out}	power supply, out of external voltage, positive pole (AUX, actuator supply)
0 V _{ext out}	power supply, out of external voltage, negative pole (AUX, actuator supply)
n.c. (not connected)	not connected

Connections						
Article No.	connec.	Pin1	Pin2	Pin3	Pin4	Pin5
BWU3625	X1	24 V out of ASi	n.c.	0 V out of ASi	I1	n.c.

Accessories:

- Sealing profile IP67 (IDC plug), 60 mm (art. no. BW3282)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4708)