

Active Distributor ASi, IP54, 4O

1 x connector for profile cable ASi

Periphery connection via
1 x round cable/connecting wires without ferrules

1 x connection for ASi addressing device



(Figure similar)

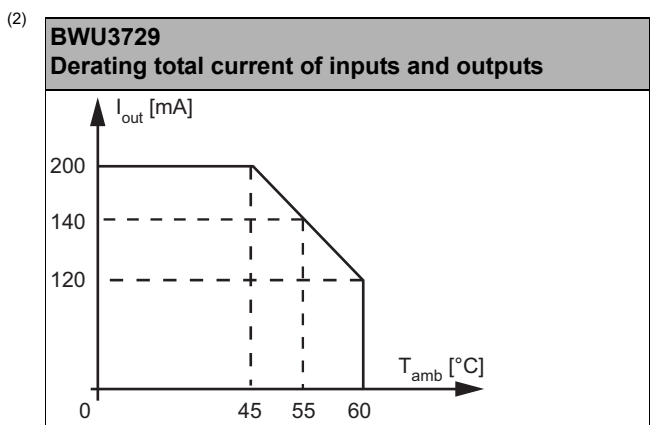


Figure	Type	Inputs Safety, SIL 3, Cat. 4	Outputs digital	Input voltage (sensor supply) (1)	Output voltage (actuator supply) (2)	ASi connection (3)	Connection (4)	ASi address (5)	Art. no.
	IP54, depth 35 mm	–	4 x electronic	–	out of ASi	ASi profile cable	1 x round cable/connecting wires without ferrules + 1 x ASi addressing cable socket	1 AB slave	BWU3729

- (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.
- (4) **Connection:** further connection options are available on request.
- (5) **ASi address:** 1 AB Slave (max. 62 AB Slaves/ASi network), 2 AB Slaves (max. 31 modules with 2 AB Slaves), Single Slaves (max. 31 Single Slaves/ASi network), mixed use allowed.
For modules with two slaves the second slave is turned off as long as the first slave is addressed to address "0".
Upon request, slaves are available with specific ASi Slave profiles.

Article No.		BWU3729
General data		
Device type		output
Connection		
ASi/AUX connection		profile cable and piercing
Periphery connection		1 x round cable/connecting wires without ferrules + 1 x ASi addressing cable socket
Round cable		O1/O2/O3/O4: 4 m ASi addressing cable socket: 0,05 m ⁽¹⁾ max. allowed tensile strain 10 N
ASi		
Profile		S-7.A.7 (ID1=7 fixed)
Address		1 AB slave
Required Master profile		≥M4
As of ASi specification		3
Operating voltage		30 V (18...31.6 V)
Max. current consumption		245 mA
Max. current consumption without sensor/ actuator supply		45 mA
Output		
Number		4
Power supply		out of ASi
Output		short-circuit and overload protected according to EN 61131-2
Max. output current	up to +45 °C	200 mA ⁽²⁾
	at +55 °C	140 mA ⁽²⁾
	at +60 °C	120 mA ⁽²⁾
Display		
LED ASi/FLT (red/green)		green: ASi voltage on, slave online red: ASi voltage on, but slave offline yellow/red flashing: address 0 red/green flashing: peripheral fault ⁽³⁾ off: no ASi voltage
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
Passive safety (up to PLe/SIL 3)		yes ⁽⁴⁾
Operating altitude		max. 2000 m
Ambient temperature		-30 °C ... +60 °C (no condensation permitted)
Storage temperature		-25 °C ... +85 °C
Housing		plastic, for screw mounting, suitable for cable ducts (installation depth ≥35 mm)
Pollution degree		2
Protection category		IP54
Tolerable loading referring to humidity		according to EN 61131-2
Maximum tolerable shock and vibration stress		≤15g, T≤11 ms 10 ... 55 Hz, 0,5 mm amplitude
Insulation voltage (external - any wire to all surfaces)		3 kV RMS AC for 60 s (performance test)
External protection		UL - Class 2 source required
Weight		100 g
Dimensions (W / H / D) in mm		60 / 45 / 35

⁽¹⁾ From Ident 17355 on.



(3) see table "Peripheral fault indication"

(4) Exclusion of errors for the connection of the two ASi and AUX potentials can be assumed in the module. Passive safety for the application can only be achieved if this is ensured for all components used.

UL-specifications (UL61010)	
BWU3729	
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.

Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU3729	-	•	-

Programming	ASi bit assignment			
	D3	D2	D1	D0
	output			
BWU3729	O4	O3	O2	O1
	parameter bit			
	P3	P2	P1	P0
BWU3729	not used	not used	not used	0= off / 1= on (Watchdog)

Pin assignment

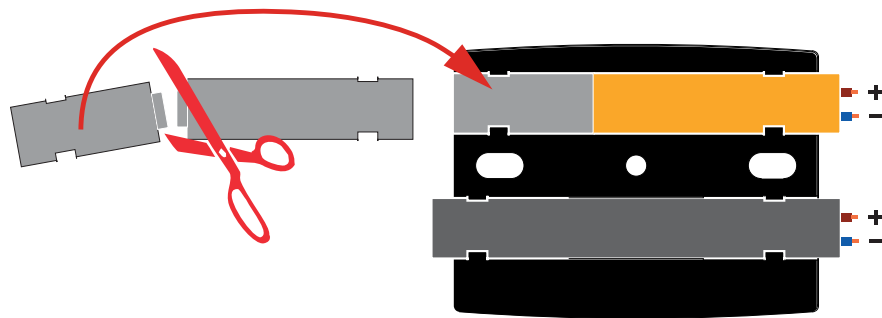
Signal name	Explanation
Ox	digital output x
24V _{out of ASi}	power supply, out of ASi, positive pole (sensor supply)
0V _{out of ASi}	power supply, out of ASi, negative pole (sensor supply)
ASi +, ASi -	connection to ASi bus
n.c. (not connected)	not connected

Connections: round cable/connecting wires without ferrules						
Article no.	connection	BN	WH	BU	BK	GY
BWU3729	X1	O1	O2	O3	O4	0 V out of ASi
	ADDR	connection for ASi addressing device				

Line termination with sealing profile



max. IP54



Accessories:

- Sealing profile IP67 (IDC plug), 60 mm (art. no. BW3282)
- ASi addressing cable with M12 connector, connecting cable for handheld ASi address programming devices for the addressing of active distributors (art. no. BW3304)
- ASi addressing cable with COMBICON connector, connecting cable for ASi Master/Gateways for the addressing of active distributors (art. no. BW3305)