

Active Distributor ASi, IP54, 4O

1 x connector for profile cable ASi

Periphery connection via
1 x round cable/connecting wires 0,25 mm² 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 0,25 mm ² without ferrules + 1 x ASi addressing cable socket	1 AB address	BWU3729

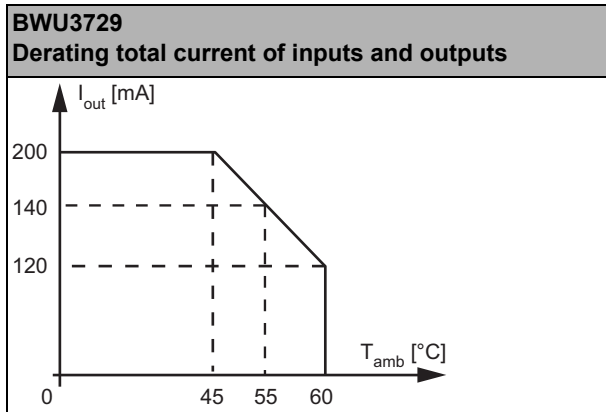
- (1) **Input voltage (sensor supply):** inputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, inputs shall not be connected to earth or to external potential.
- (2) **Output voltage (actuator supply):** outputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied 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 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.		BWU3729
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 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 address
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, ASi node online red: ASi voltage on, but ASi node offline green flashing/red: address 0 red/green flashing: peripheral fault ⁽³⁾ off: no ASi voltage
LED O1 ...On (yellow)		state of outputs O1 ... O4

Article No.	BWU3729
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 ⁽⁴⁾
Operating altitude	max. 2000 m
Ambient temperature	-30 °C ... +60 °C ^{(2) (5)}
Storage temperature	-25 °C ... +85 °C
Intended environment	for indoor use only ⁽⁶⁾
Housing	plastic, for screw mounting, suitable for cable ducts (installation depth ≥35 mm)
Pollution degree	2
Protection category	IP54
Overvoltage category	II
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.

(2)



(3) see table "Peripheral fault indication"

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

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

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

UL-specifications (UL61010)	
BWU3729	
Model ⁽¹⁾	PCO.DBA3-3729
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
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

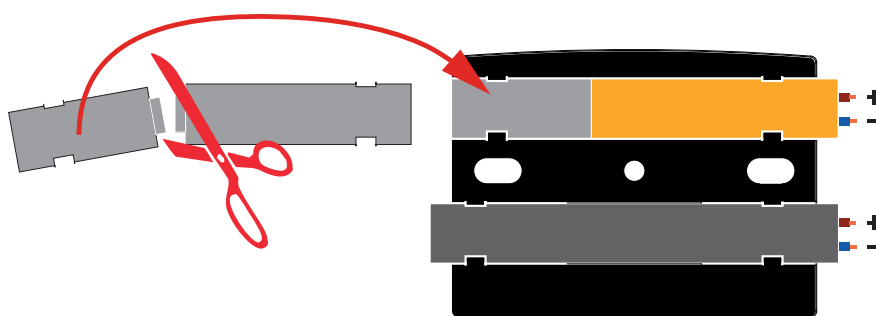
Connections: round cable/connecting wires 0,25 mm ² without ferrules						
Article no.	connection	BN	WH	BU	BK	GY
BWU3729	X1	O1	O2	O3	O4	0 V out of ASi
	ADDR	connection for ASi-3 addressing plug				



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. BW4925)