

Active Distributor ASi, IP67



2 x connectors for profile cable

Periphery connection via
1 x connecting wires



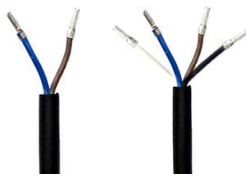
(Figure similar)

Figure	Inputs digital	Outputs digital	Input voltage (sensor supply) ⁽¹⁾	Output voltage (actuator supply) ⁽²⁾	Connection ⁽³⁾	ASi address ⁽⁴⁾	Special function	Art. no.
	4	4 x electronic	out of ASi	out of ASi	1 x round cable/ connecting wires 0,25 mm ²	1 AB address	to connect Stack-Light Banner TL50GYRAQ + audible alarm (180 mA) to ASi	BWU3606

(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) **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				
				

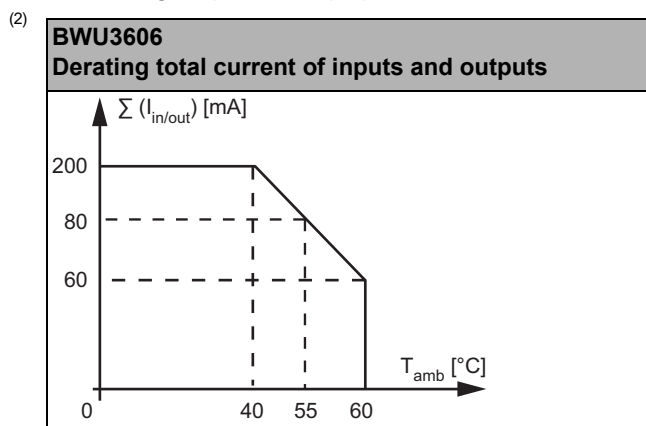
(4) **ASi address:** 1 AB address (max. 62 AB addresses/ASi network), 2 AB addresses (max. 31 modules with 2 AB addresses), Single addresses (max. 31 Single addresses/ASi network), mixed use allowed. For modules with two ASi nodes the 2nd ASi node is turned off as long as the 1st ASi node is addressed to address "0". Upon request, ASi nodes are available with specific ASi node profiles.

Article No.	BWU3606
General data	
Device type	input/output
Connection	
ASi/AUX connection	profile cable and piercing technology
Periphery connection	1 x round cable/ connecting wires 0,25 mm ²
M12 wiring ⁽¹⁾	—
Round cable	2 m
	max. allowed tensile strain 10 N

Article No.		BWU3606
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
Input		
Number		4
Power supply		out of ASi
Power supply of attached sensors	up to +40 °C	200 mA, $\sum (In/Out) \leq 200 \text{ mA}^{(2)}$
	at +55 °C	80 mA, $\sum (In/Out) \leq 80 \text{ mA}^{(2)}$
	at +60 °C	60 mA, $\sum (In/Out) \leq 60 \text{ mA}^{(2)}$
Switching threshold		U<5 V (low) U>15 V (high)
Output		
Number		4
Power supply		out of ASi
Max. output current	up to +40 °C	200 mA, $\sum (In/Out) \leq 200 \text{ mA}^{(2)}$
	at +55 °C	80 mA, $\sum (In/Out) \leq 80 \text{ mA}^{(2)}$
	at +60 °C	60 mA, $\sum (In/Out) \leq 60 \text{ mA}^{(2)}$
Display		
LED ASI/FLT (red/green)		green: ASi voltage OK, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault ⁽³⁾ off: no ASi voltage
LEDs I1 ... In (yellow)		state of inputs I1 ... I4
LED O1 ... On (yellow)		state of outputs O1 ... O4

Article No.	BWU3606
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 ^{(5) (2)}
Storage temperature	-25 °C ... +85 °C
Intended environment	for indoor use only ⁽⁶⁾
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)
Pollution degree	2
Protection category	IP67 ^{(7) (8)}
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 / 35

- (1) **M12 wiring:**
Single wiring: 1 input or output per connection.
Y wiring: 2 inputs or outputs per connection.
Mixed wiring: 1 input and 1 output per connection.



- (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.
- (7) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67
- (8) Manufacturer specification, IP rating not evaluated by UL.

UL specifications (UL61010)	
BWU3606	
Model ⁽¹⁾	PCO.DBA3-3606
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
BWU3606	•	–	–

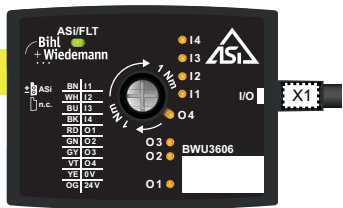
Programming	ASi bit assignment			
	D3	D2	D1	D0
	input			
BWU3606	I4	I3	I2	I1
	output			
BWU3606	O4	O3	O2	O1

Programming	ASi bit assignment			
	parameter bit			
	P3	P2	P1	P0
BWU3606	not used	0= on / 1= off (synchronous I/O mode)	0= on / 1= off (data input filter 128 µs)	0= off / 1= on (Watchdog)

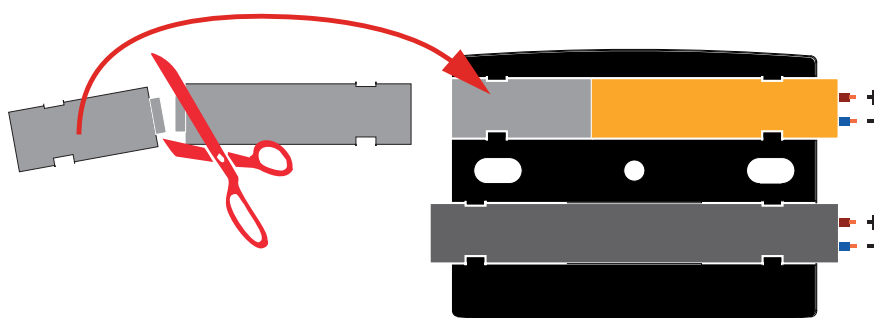
Pin assignment

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											
Article no.	connec.	BN	WH	BU	BK	VT	GY	RD	GN	YE	OG
BWU3606	X1	I1	I2	I3	I4	O4	O3	O1	O2	0 V out of ASi	24 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. BW4925)
- Bihl+Wiedemann Safety Suite License - Safety Software for Configuration, Diagnostics and Commissioning (art. no. BW2916)