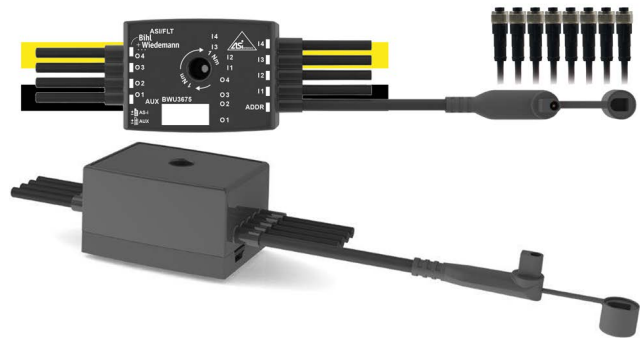


2 x connectors for profile cable

Periphery connection via
8 x M12 cable sockets, straight, 5 poles

1 x connection for ASi addressing device



(Figure similar)



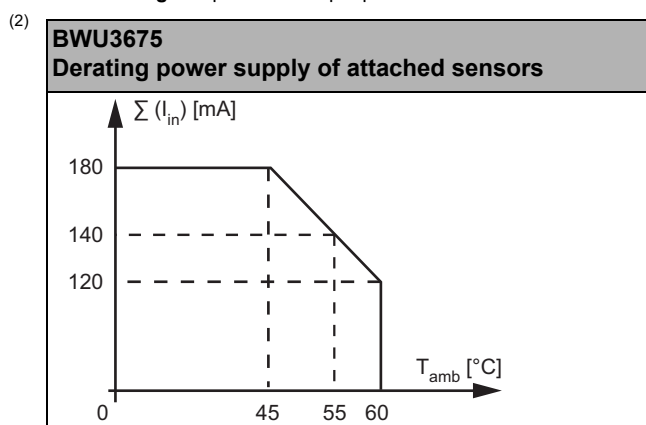
Figure	Inputs digital	Outputs digital	Input voltage (sensor supply) ⁽¹⁾	Output voltage (actuator supply) ⁽²⁾	Connection ⁽³⁾	M8/M12 wiring ⁽⁴⁾	ASi address ⁽⁵⁾	Art. no.
	4	4 x electronic	out of ASi	out of AUX	8 x M12 cable sockets, straight, 5 poles + 1 x ASi addressing cable socket	Single	1 AB address	BWU3675

- (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.
- (4) **M8/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.
- (5) **ASi address:** AB addresses (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.
 Upon request, ASi-3 nodes are available with specific ASi node profiles.
 For modules with two ASi-3 nodes the 2nd ASi-3 node is turned off as long as the 1st ASi-3 node is addressed to address "0".

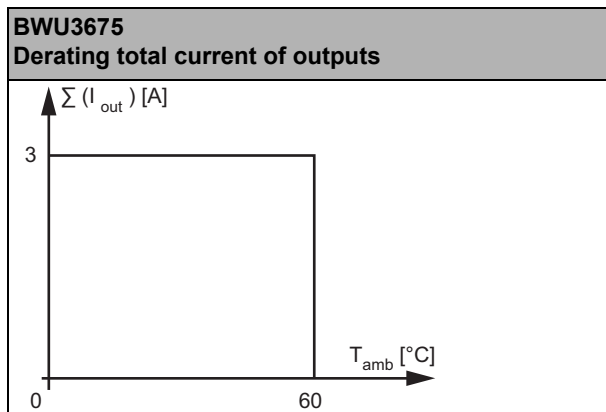
Article No.		BWU3675	
General data			
Device type		input/output	
Connection			
ASi/AUX connection		profile cable and piercing	
Periphery connection		8 x M12 cable sockets, straight, 5 poles + 1 x ASi addressing cable socket	
M12 wiring ⁽¹⁾		single wiring	
Round cable		I4: 0,05m O4: 0,35m I3: 0,15m O3: 0,25m I2: 0,25m O2: 0,15m I1: 0,35m O1: 0,05m ASi addressing cable socket: 0,05 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		3.0	
Operating voltage		=== 30 V _{DC} (18 ... 31.6 V)	
Max. current consumption		245 mA	
Max. current consumption without sensor/ actuator supply		45 mA	
AUX			
Operating voltage		=== 24 V _{DC} (18 ... 30 V)	
Max. current consumption		3 A	
Input			
Number		4	
Power supply		out of ASi	
Sensor supply		short-circuit and overload protected according to EN 61131-2	
Power supply of attached sensors	up to +45 °C	180 mA ⁽²⁾	
	at +55 °C	140 mA ⁽²⁾	
	at +60 °C	120 mA ⁽²⁾	
Switching threshold		U<5 V (low) U>15 V (high)	
Output			
Number		4	
Power supply		out of AUX	
Output		short-circuit and overload protected according to EN 61131-2	
Max. output current	up to +45 °C	1 A per output, ∑ (Out) ≤3 A ⁽³⁾	
	at +55 °C		
	at +60 °C		
Display			
LED ASi/FLT (red/green)		green: ASi voltage on, ASi node online green/red: ASi voltage on, but ASi node offline green flashing/red: address 0 alternating green flashing/red flashing: peripheral fault ⁽⁴⁾ off: no ASi voltage	
LED AUX (green)		on: 24 V _{DC} AUX off: no 24 V _{DC} AUX	
LEDs I1 ... In (yellow)		state of inputs I1 ... I4	
LED O1 ... On (yellow)		state of outputs O1 ... O4	

Article No.	BWU3675
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 ⁽⁵⁾
Operating altitude	max. 2000 m
Ambient temperature	-30 °C ... +60 °C ⁽²⁾ ⁽³⁾ ⁽⁶⁾
Storage temperature	-25 °C ... +85 °C
Intended environment	for indoor use only ⁽⁷⁾
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)
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 ASi/AUX (internal)	2 kV RMS AC for 60s (performance test)
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) **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)



(4) see table "Peripheral fault indication"

(5) The module is suitable for use in paths with a passively safe-switched AUX cable, since an exclusion of errors can be assumed for the connection of the two ASi and AUX potentials.

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

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

UL-specifications (UL61010)

BWU3675

Model	PCO.DBA3-3675
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.

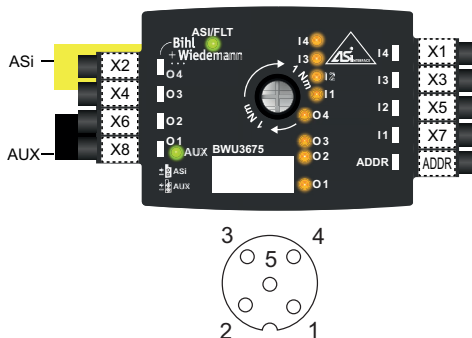
Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU3675	•	–	•

Programming	ASi bit assignment			
	D3	D2	D1	D0
	input			
BWU3675	I4	I3	I2	I1
	output			
BWU3675	O4	O3	O2	O1
	parameter bit			
	P3	P2	P1	P0
BWU3675	not used	0= on / 1= off (synchronous I/O mode)	0= off / 1= on (peripheral fault, if AUX missing)	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

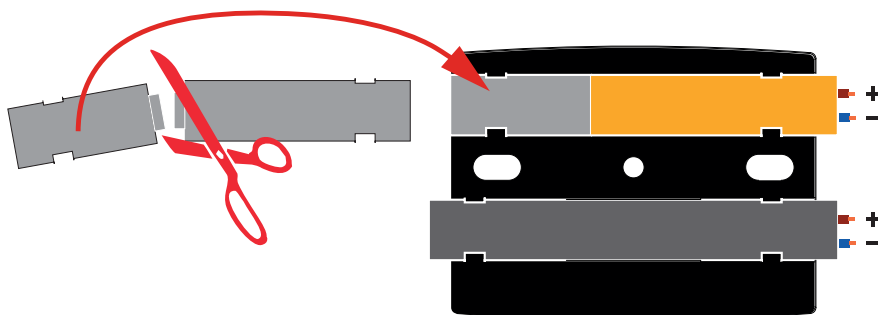
Connections:							
Article no.	M12 Connection	Cable length	Pin1	Pin2	Pin3	Pin4	Pin5
BWU3675	X1	0,05 m	24V out of ASi	n.c.	0V out of ASi	I4	n.c.
	X2	0,35 m	n.c.	n.c.	0 V ext out	O4	n.c.
	X3	0,15 m	24V out of ASi	n.c.	0V out of ASi	I3	n.c.
	X4	0,25 m	n.c.	n.c.	0 V ext out	O3	n.c.
	X5	0,25 m	24V out of ASi	n.c.	0V out of ASi	I2	n.c.
	X6	0,15 m	n.c.	n.c.	0 V ext out	O2	n.c.
	X7	0,35 m	24V out of ASi	n.c.	0V out of ASi	I1	n.c.
	X8	0,05 m	n.c.	n.c.	0 V ext out	O1	n.c.
	ADDR	0,05 m	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)