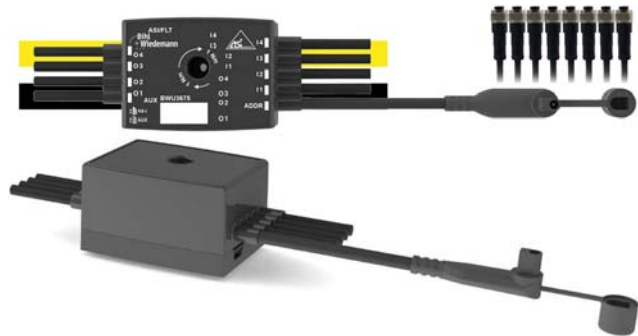


2 x connectors for profile cable

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

1 x connection for ASi addressing device



(Figure similar)



Figure	Type	Inputs digital	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	4 x electronic	out of ASi	out of AUX	ASi profile cable	8 x M12 cable sockets, straight, 5 poles + 1 x ASi addressing cable socket	1 AB slave	BWU3675

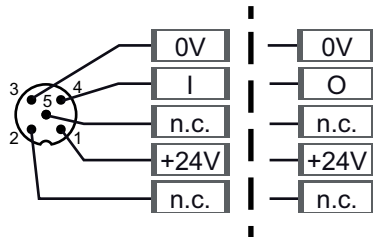
- (1) **Input voltage (sensor supply):** inputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, inputs shall not be connected to earth or to external potential.
- (2) **Output voltage (actuator supply):** outputs are supplied by ASi or by AUX (auxiliary 24 V power). If supplied by ASi, outputs shall not be connected to earth or to external potential
- (3) **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.
- (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.		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 slave
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, Σ (Out) ≤ 3 A ⁽³⁾
	at +55 °C	
	at +60 °C	
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 ⁽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

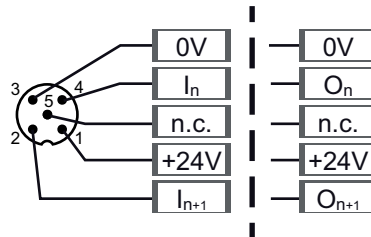
Article No.	BWU3675
Environment	
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529
Operating altitude	max. 2000 m
Ambient temperature	-30 °C ... +60 °C ⁽²⁾ ⁽³⁾ ⁽⁵⁾
Storage temperature	-25 °C ... +85 °C
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)
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 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:** either as a single-wiring, Y-wiring or mixed-wiring.

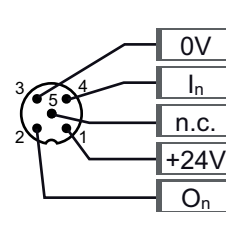
Single-wiring



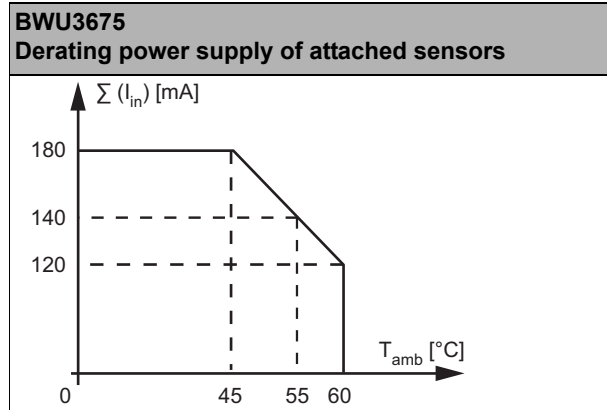
Y-wiring



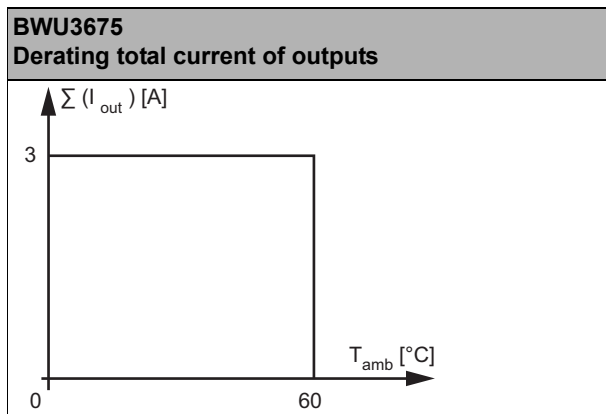
Mixed-wiring



(2)



(3)



(4) see table "Peripheral fault indication"

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

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

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

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

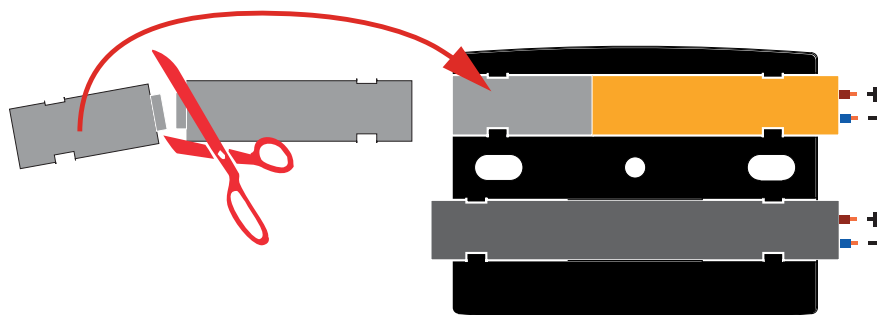
Connections:

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.	0V 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.	0V 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.	0V 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.	0V ext out	O1	n.c.	
	ADDR	0,05 m	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)