

Active Distributor ASi-5, IP67, M12, self-configuring 6I/O



ASi-5 active distributor with self-configuring connections, IP67, M12

New standard ASi-5

Periphery connection via M12 cable socket, straight, 8 poles



(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.
	IP67, depth 35 mm, ASi-5	up to 6, depending on configuration	up to 6 x electronic, depending on configuration	out of ASi	out of ASi	ASi profile cable	1 x M12 cable socket, straight, 8 poles	1 ASi-5 address	BWU5166

- (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.

M12 cable socket, angled	M12 cable socket, straight	M8 cable socket, straight	round cable / connecting wires	Push in terminals
PUR line: oil resistant				

- (5) **ASi address:** AB address (max. 62 ASi nodes with extended address allocation per ASi circuit), 2 AB addresses (max. 31 ASi-3 modules with 2 AB addresses), single address (max. 31 ASi-3 nodes with standard address allocation per ASi circuit) ASi-5 address (max. 62 ASi-5 nodes per ASi circuit), mixed use allowed (upon request, ASi modules are available with specific ASi profiles).

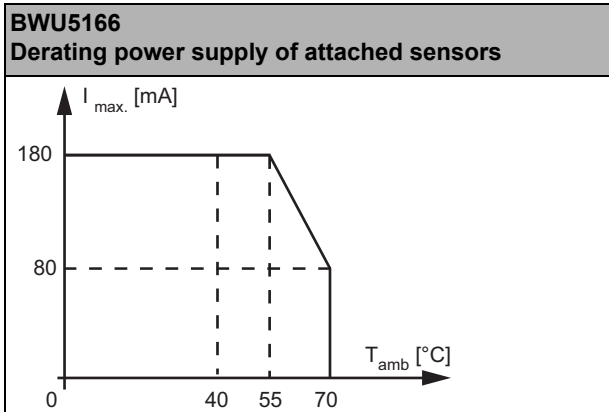
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Article No.		BWU5166
Connection		
ASi/AUX connection		profile cable and piercing technology
Periphery connection		1 x M12 cable socket, straight, 8 poles
Cable		0.5 m
		max. allowed tensile strain 10 N
ASi		
Address		1 ASi-5 address
Required Master profile		ASi-5 Master
As of ASi specification		5
Process data width		2 ... 32 byte
Operating voltage		30 V (18 ... 31.6 V)
Max. current consumption		215 mA
Max. current consumption without sensor/ actuator supply		35 mA
Inputs digital		
Number		up to 6, depending on configuration
Power supply		out of ASi
Power supply of attached sensors	up to +40 °C	max. 180 mA,
	at +55 °C	$\Sigma(\text{In/Out}) \leq 180 \text{ mA}^{(1)}$
	at +70 °C	max. 80 mA,
		$\Sigma(\text{In/Out}) \leq 80 \text{ mA}^{(1)}$
Switching threshold		U < 5 V (low)
		U > 15 V (high)
Outputs digital		
Number		up to 6 x electronic, depending on configuration
Power supply		out of ASi
Max. output current	up to +45 °C	100 mA per output
	at +55 °C	$\Sigma(\text{In/Out}) \leq 180 \text{ mA}^{(2)}$
	at +70 °C	45 mA per output
		$\Sigma(\text{In/Out}) \leq 80 \text{ mA}^{(2)}$
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 ⁽³⁾ off: no ASi voltage
LEDs I/O1 ... I/On (yellow)		state of inputs I1 ... I6 or outputs O1 ... O6, depending on configuration off : the corresponding input or output is turned off yellow : the corresponding input or output is turned on red : output short circuit ⁽³⁾

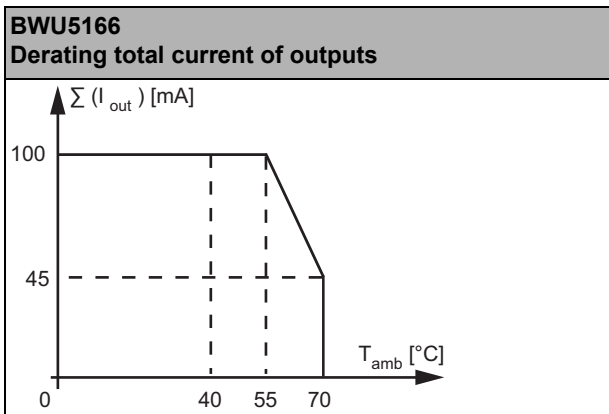
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Article No.	BWU5166
Environment	
Applied standards	EN 61000-6-2 EN 61000-6-3 EN 61131-2 EN 60529
It can be used with a switched AUX cable, which is passively safe up to SIL3/PLe	yes ⁽⁴⁾
Operating altitude	max. 2000 m
Ambient temperature	-30 °C ... +70 °C
Storage temperature	-25 °C ... +85 °C
Housing	plastic, for screw mounting, suitable for cable ducts (≥35 mm installation depth)
Pollution degree	2
Protection category	IP67 ⁽⁵⁾
Max. tolerable 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)



(2)



(3) See table "Peripheral fault indication"

(4) 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.

(5) Protection category IP67 can only be achieved, if also the cable connector fulfills IP67

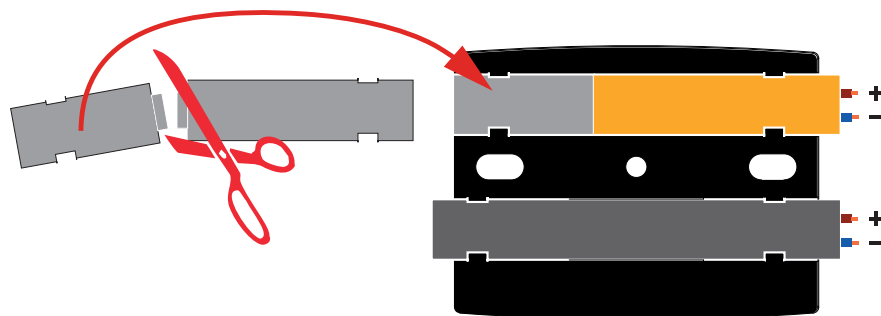
Article no.	Peripheral fault indication		
	Overload sensor supply	Output short circuited	AUX voltage missing
BWU5166	•	•	–

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

Connections: M12 cable socket, straight, 8 poles									
Artikel Nr.	M12 Anschluss	Pin1 (WH)	Pin2 (BN)	Pin3 (GN)	Pin4 (YE)	Pin5 (GY)	Pin6 (PK)	Pin7 (BU)	Pin8 (RD)
BWU5166	X1	24 V _{out} of ASi	I/O1	I/O2	I/O3	I/O4	I/O5	I/O6	0 V _{out} of ASi
									

Line termination with sealing profiles



Accessories:

- Sealing profile IP67 (IDC plug), 60 mm (art. no. BW3282)
- ASi-5/ASi-3 Address Programming Device (art. no. BW4925)