

## 24 Volt ASi-5/ASi-3 Gateway in Stainless Steel, 1 ASi-5/ASi-3 Master

**Bihl  
+ Wiedemann**  
...

**ASi-5 – Great data bandwidth, short cycle times**

**Compatible with all ASi generations**

**ASi-5 master and ASi-3 master in one device**

**24 Volt ASi:**

- The device can be operated directly on a 24 V (PELV) power supply.
- With integrated data coupling coils and adjustable self-resetting fuses optimized for safe use also of powerful 24 V power supplies.


**Recognition of duplicate ASi addresses**

**ASi Noise Detector integrated**



(figure similar)



Figure	Fieldbus interface <sup>(1)</sup>	ASi-5/ASi-3	Number of ASi networks, number of ASi Master <sup>(2)</sup>	Integrated decoupling, ASi current measurement in the gateway <sup>(3)</sup>	Recognition of duplicate ASi addresses <sup>(4)</sup>	ASi fault detector <sup>(5)</sup>	Programming in C <sup>(6)</sup>	Article no.
	PROFINET	ASi-5 + ASi-3 compatible	1 ASi network, 1 ASi-5/ASi-3 Master	yes, max. 4 A/ASi network	yes	yes	no	BWU3972

**(1) Fieldbus interface**

Communication interface between fieldbus and gateway: interfaces for standardized fieldbus systems in industrial automation.

The latest version of the device description file of the gateway is available in the "Downloads" section of the respective device.

**(2) Number of ASi networks, number of ASi Master**

"Single Master": 1 ASi network, 1 ASi-5/ASi-3 Master.

**(3) Integrated decoupling, ASi current measurement in the gateway**

"yes, max. 4 A/ASi network": Data decoupling integrated in the gateway. Cost-effective power for 2 ASi networks with 1 power supply (optionally supply of multiple Single Gateways by 1 power supply). Operation with short cable lengths with standard 24 V power supply possible.

**(4) Recognition of duplicate ASi addresses**

Detects whether the same address has been assigned to two ASi nodes. Frequent error when using a handheld addressing device.

**(5) ASi fault detector**

Checks the ASi line for interference effects such as noise, external voltages, ...

**(6) Programming in C**

Using a C-program offers the possibility to run mini-PLC functions with a gateway.

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<b>Article no.</b>	<b>BWU3972</b>
<b>Fieldbus Interface</b>	
Type	PROFINET 2 x RJ-45, integrated 2-Port-Switch IRT capability Conformance Class B integrated switch complies with Class C (IRT capability)
OPC UA interface	–
Baud rates	100 MBaud
Function	PROFINET IO Device
Card slot	chip card (BW4055) for storage of configuration data
<b>ASi</b>	
ASi specification	ASi-5 + ASi-3
Cycle time	<b>Cycle time ASi-5 (constant):</b> 1,27 ms for 384 bits input data + 384 bits output data
	<b>Cycle time ASi-3 (variable):</b> 150 µs * (number of ASi-3 nodes + 2)
Operating voltage	24 V <sub>DC</sub> (20 ... 31,6 V) (PELV voltage)
Operating current	approx. 250 mA
Current per ASi network	max. 4 A
Length of ASi cable	with 24 V power supply: max. 50 m with 30 V power supply: max. 100 m with ASi-3 / max. 200 m with ASi-5
<b>Display</b>	
LCD	menu, ASi indication of ASi addresses, error messages in plain text
LED power (green)	power ON
LED PROFINET	green: PROFINET communication active red: no PROFINET communication
LED config error (red)	configuration error
LED U ASi (green)	ASi voltage o.k.
LED ASi active (green)	ASi normal operation active
LED prg enable (green)	automatic address programming enabled
LED prj mode (yellow)	in configuration mode
<b>UL-specifications (UL508)</b>	
External protection	An isolated source with a secondary open circuit voltage of $\leq 30$ V <sub>DC</sub> with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.
In general	UL mark does not provide UL certification for any functional safety rating or aspects of the above devices.

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<b>Article no.</b>	<b>BWU3972</b>
<b>Environment</b>	
Applied standards	EN 61131-2 EN 60529 EN 61000-6-2 EN 61000-6-4
Operating altitude	max. 2000 m
Operating temperature	0 °C ... +55 °C
Storage temperature	-25 °C ... +85 °C
Housing	Stainless Steel, for DIN rail mounting
Pollution degree	2
Protection category	IP20
Tolerable loading referring to humidity	according to EN 61131-2
Maximum tolerable shock and vibration stress	according to EN 61131-2
Voltage of insulation	≥500 V
Weight	500 g
Dimensions (W / H / D in mm)	85 / 120 / 83

<b>Article no.</b>	<b>BWU3972</b>
<b>Data decoupling integrated in the gateway</b>	•
<b>Current measurement of the ASi circuits</b>	•
<b>Self-resetting fuses</b>	•
<b>Adjustable fuses</b>	-
<b>ASi earth fault monitor distinguishes between ASi cable and sensor cable</b>	-

### Accessories:

- Chip card, memory capacity 512 kB (art. no. BW4055)
- Bihl+Wiedemann Suite - Software for Configuration, Diagnostics and Commissioning (art. no. BW2902)
- PROFINET Master Simulators Licenses (art. no. BW4754, BW4755)
- Power supplies, e.g.: 30 V power supply, 4 A, 1 phase (art. no. BW4218), 30 V power supply, 8 A, 1 phase (art. no. BW4219), 30 V power supply, 8 A, 3 phases (art. no. BW4220), 30 V Power Supply, 16 A, 1 phase (art. no. BW4221), 30 V Power Supply, 16 A, 3 phases (art. no. BW4222) (for further power supply units visit [www.bihl-wiedemann.de/en/pro-ducts/accessories/power-supplies](http://www.bihl-wiedemann.de/en/pro-ducts/accessories/power-supplies))



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