

# ASi-5/ASi-3 PROFINET-Gateways in Stainless Steel

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

**Compatible with all ASi generations**

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

**OPC UA server**

**1 ASi master, PROFINET device**

**PROFINET IO**

- offers IRT-technology
- 1 integrated Switch

**integrated web server for simple diagnostics**

**Recognition of duplicate ASi addresses**

**ASi Earth Fault Detector integrated**

**ASi Noise Detector integrated**

**Optional Control III, programming in C**



(figure similar)



Figure	Type	Model	Fieldbus interface (1)	Number of ASi networks, number of ASi Master (2)	1 power supply, 1 gateway for 2 ASi networks, inexpensive power supplies (3)	Diagnostic and configuration interface (4)	Recognition of duplicate ASi addresses (5)	ASi fault detector (6)	Programming in C (7)	Article no.
	PROFINET ASi-5/ASi-3	Gateway	PROFINET, OPC UA	1 ASi network, 1 ASi master	yes, max. 8 A/ ASi network	Ethernet fieldbus + Ethernet diagnostic	yes	yes	optional	<b>BWU3848</b>

**(1) Fieldbus interface**

Communication interface between fieldbus and gateway: interfaces for standardized fieldbus systems in industrial automation.  
**PROFINET ASi Gateway:** interface for a PROFINET fieldbus  
**OPC UA server:** interface for the OPC UA communication.

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

**"Double Master":** 2 ASi networks, 2 ASi Masters.

**(3) 1 power supply, 1 gateway for 2 ASi networks, inexpensive power supplies**

**"yes, max. 4 A/ASi network":** 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) Diagnostic and configuration interface**

**"Ethernet fieldbus + Ethernet diagnostic":**

Access to ASi Master and Safety Monitor with Bihl+Wiedemann software by using the Ethernet diagnostic interface or Ethernet fieldbus interface.

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

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

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

**(6) ASi fault detector**

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

**(7) Programming in C**

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

## ASi-5/ASi-3 PROFINET-Gateways in Stainless Steel

<b>Article no.</b>	<b>BWU3848</b>
<b>Interface</b>	
PROFINET interface	2 x RJ-45, integrated 2-Port-Switch, IRT capability Conformance Class B integrated switch complies with Class C (IRT capability)
OPC UA interface	OPC UA server + web server
Conformance Class	Class B integrated switch complies with Class C (IRT capability)
Baud rate	100 MBaud
Function	PROFINET IO Device Media Redundancy Protocol (MRP) Shared Device
Card slot	Chip card (512 KB) for storage of configuration data
<b>ASi</b>	
ASi specification	ASi-3 + ASi-5
Cycle time	<b>Cycle time ASi-3 (variable):</b> 150 $\mu$ s * (number of ASi-3 slaves + 2) <b>Cycle time ASi-5 (constant):</b> 1,27 ms for 384 bits input data + 384 bits output data
Operating current	ca. 250 mA
Current per ASi network	max. 8 A
ASi Power24V capability <sup>(1)</sup>	yes
<b>Display</b>	
LCD	menu, ASi indication of slave addresses, error messages in plain text
LED power (green)	power ON
LED PROFINET (green/red)	green: PROFINET communication active red: PROFINET communication not active
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 $\leq 30 V_{DC}$ 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.
<b>Environment</b>	
Applied standards	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	$\geq 500$ V
Weight	625 g
Dimensions (W / H / D in mm)	85 / 120 / 106

<sup>(1)</sup> **ASi Power24V**

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

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Article no.	BWU3848
Current measurement of the ASi circuits	•
Self-resetting adjustable fuses	•

### Accessories:

- Chip card, memory capacity 512 kB (art. no. BW4055)
- Bihl+Wiedemann Suite - Software for Configuration, Diagnostics and Commissioning (art. no. BW2902)
- Power supplies, e.g.: 30 V power supply, 4 A, 3 phases (art. no. BW1927), 30 V power supply, 8 A, 3 phases (art. no. BW1676) (for further power supply units visit [www.bihl-wiedemann.de/en/products/accessories/power-supplies](http://www.bihl-wiedemann.de/en/products/accessories/power-supplies))
- PROFINET Master Simulator (art. no. BW3035, BW3057)



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