

24 Volt ASi Gateways in Stainless Steel

24 Volt ASi:

- The devices 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.

Available fieldbus interfaces:

- PROFINET IO

Recognition of duplicate ASi addresses

ASi Noise Detector integrated



(figure similar)



Figure	Type	Model	Fieldbus interface ⁽¹⁾	Number of ASi networks, number of ASi Master ⁽²⁾	Integrated de-coupling, ASi current measurement in the gateway ⁽³⁾	Recognition of duplicate ASi addresses ⁽⁴⁾	ASi fault detector ⁽⁵⁾	Programming in C ⁽⁶⁾	Article no.
	24 Volt ASi Gateway	Gateway	PROFINET	1 ASi network, 1 ASi-3 Master	yes, max. 4 A/ASi network	yes	yes	optional	BWU2919

(1) Fieldbus interface

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

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

"Single Master": 1 ASi network, 1 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.

Article no.	BWU2919
Interface	
Fieldbus interface	PROFINET (RJ-45) 2 x RJ-45, integrated 2-Port-Switch, IRT capability Conformance Class B integrated switch complies with Class C (IRT capability)
OPC UA interface	–
Transmission rate	10/100 MBit/s
Function	PROFINET IO Device Media Redundancy Protocol (MRP) Shared Device
Card slot	chip card for storage of configuration data
ASi	
ASi specification	3.0
Cycle time	150 µs * (number of ASi-3 nodes + 2)
Operating voltage	24 V _{DC} (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 standard power supply: max. 50 m with 30 V ASi power supply: max. 100 m
Display	
LCD	menu, indication ASi addresses, error messages in plain text
LED power (green)	power ON
Fieldbus	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
UL-specifications (UL508)	
External protection	An isolated source with a secondary open circuit voltage of ≤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.
Environment	
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
Protection category	IP20
Tolerable loading referring to impacts and vibrations	according to EN 61131-2
Voltage of insulation	≥500 V
Weight	500 g
Dimensions (W / H / D in mm)	85 / 120 / 83

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Redundant power supply out of ASi: all fundamental functions of the device remain available even in case of power failure in one of the two ASi networks	–
Current measurement of the ASi circuits	–
Self-resetting fuses	•
Adjustable fuses	–
ASi earth fault monitor distinguishes between ASi cable and sensor cable	–
Cost-effective power for 2 ASi networks with 1 power supply	•

Accessories:

- Diagnostic Software (art. no. BW2902)
- PROFINET Master Simulator (art. no. BW3035, BW3057)
- PROFIBUS Master Simulator (art. no. BW1131, BW1257)
- 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)
- Control III, Programming in C (art. no. BW2582)