ASi-5/ASi-3 PROFINET-Gateways in Stainless Steel, 2 ASi-5/ASi-3 Masters



ASi-5 - Great data bandwidth, short cycle times

Compatible with all ASi generations

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

2 ASi-5/ASi-3 masters, PROFINET device

PROFINET IO

- · offers IRT-technology
- · 1 integrated Switch

OPC UA interface and REST API for IIoT applications

Integrated web server for simple diagnostics and maintenance

Recognition of duplicate ASi addresses

ASi Earth Fault Detector integrated

Optional Control III, programming in C



(figure similar)

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Figure	Туре		interface ⁽¹⁾	ASi networks, number of	Integrated decou- pling, ASi current measurement in the gateway ⁽³⁾	configuration				Article no.
	PROFINET ASi-5/ASi-3	Gateway			yes, max. 4 A/ ASi network	Ethernet fieldbus	yes	yes	optional	BWU3856

(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-5/ASi-3 Masters.

(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) Diagnostic and configuration interface

"Ethernet fieldbus": Access to ASi Master and Safety Monitor with Bihl+Wiedemann software by using the 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 nodes. Frequent error when using a handheld addressing device.

(6) ASi fault detector

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

(') Programming in C

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

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BWU3856
PROFINET
2 x RJ-45, integrated 2-Port-Switch, IRT capability
Conformance Class B
integrated switch complies with Class C (IRT capability)
OPC UA server, integrated web server, REST API
Class B
integrated switch complies with Class C (IRT capability) 100 MBaud
PROFINET IO Device
PROFINET TO Device PROFINET System Redundancy S2 (NAP S2)
Media Redundancy Protocol (MRP)
Shared Device
Chip card (512 KB) for storage of configuration data
ASi-3 + ASi-5
Cycle time ASi-3 (variable):
150 μs * (number of ASi-3 nodes + 2)
Cycle time ASi-5 (constant):
1,27 ms for 384 bits input data + 384 bits output data
24 V _{DC} (20 31,6 V) (PELV voltage)
ca. 250 mA
max. 4 A
yes
menu, indication of ASi addresses, error messages in plain text
power ON
green: PROFINET communication active red: PROFINET communication not active
configuration error
ASi voltage o.k.
ASi normal operation active
automatic address programming enabled
in configuration mode
An isolated voltage source with a PELV/SELV voltage ≤30 V _{DC} must have internal or external current limiting.
UL mark does not provide UL certification for any functional safety rating or aspects of the above
devices.
EN 60529
EN 61000-6-2
EN 61000-6-4
max. 5000 m
-25 °C +55 °C (no condensation permitted)
-25 °C +85 °C
Stainless Steel, for DIN rail mounting
2
IP20
according to EN 61131-2
according to EN 61131-2
≥500 V
500 g

ASi-5/ASi-3 PROFINET-Gateways in Stainless Steel, 2 ASi-5/ASi-3 Masters



(1) 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.

Article no.	BWU3856
Current measurement of the ASi circuits	•
Self-resetting adjustable fuses	•
Adjustable fuses	•
ASi earth fault monitor distinguishes between ASi cable and sensor cable	•
In version 1 gateway, 1 power supply for 2 ASi circuits: only 1 Gateway + 1 ASi power supply for 2 ASi networks	•

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/products/accessories/power-supplies)