

ASi-5/ASi-3 Ethernet/IP + Modbus TCP Gateway 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

2 ASi-5/ASi-3 masters, EtherNet/IP + Modbus TCP device
 • switch integrated

OPC UA server and 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	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.
	EtherNet/IP + ModbusTCP ASi-5 / ASi-3	Gateway	EtherNet/IP + Modbus TCP, OPC UA	2 ASi networks, 2 ASi Masters	yes, max. 4 A/ ASi network	Ethernet Fieldbus + Ethernet diagnostic	yes	yes	optional	BWU3851

- (1) **Fieldbus interface**
 Communication interface between fieldbus and gateway: interfaces for standardized fieldbus systems in industrial automation.
EtherNet/IP+ Modbus TCP ASi Gateway: interface for an EtherNet/IP+ Modbus TCP 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 nodes. Frequent error when using a hand held addressing device.
- (6) **ASi fault detector**
 Checks the ASi line for interference effects such as noise, external voltages, etc.
- (7) **Programming in C**
 Using a C-program offers the possibility to run mini-PLC functions with a gateway.

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Article no.	BWU3851
Interface	
Ethernet interface	2 x RJ-45, integrated 2-Port-Switch, Ethernet + Modbus TCP acc. to IEEE 802.3
OPC UA interface	OPC UA server + web server
Baud rate	10/100 MBaud
Function	Device Level Ring (DLR) (Ethernet/IP only)
Card slot	Chip card (512 kB) for storage of configuration data
Ethernet interface	
Baud rate	10/100 MBaud half-duplex or full-duplex
ASi	
Cycle time	Cycle time ASi-3 (variable): 150 μ s * (number of ASi-3 nodes + 2) Cycle time ASi-5 (constant): 1,27 ms for 384 bits input data + 384 bits output data
Operating voltage	30 V _{DC} (20 ... 31,6 V) (PELV voltage)
Operating current	ca. 250 mA
Current per ASi network	max. 4 A
ASi Power24V capability ⁽¹⁾	yes
Display	
LCD	menu, indication of ASi addresses, error messages in plain text
LED power (green)	power ON
LED ser active (green)	Ethernet communication 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)	configuration mode active
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	-25 °C ... +55 °C (no condensation permitted)
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

⁽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.

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Article no.	BWU3851
Current measurement of the ASi circuits	•
Self-resetting 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)
- 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)



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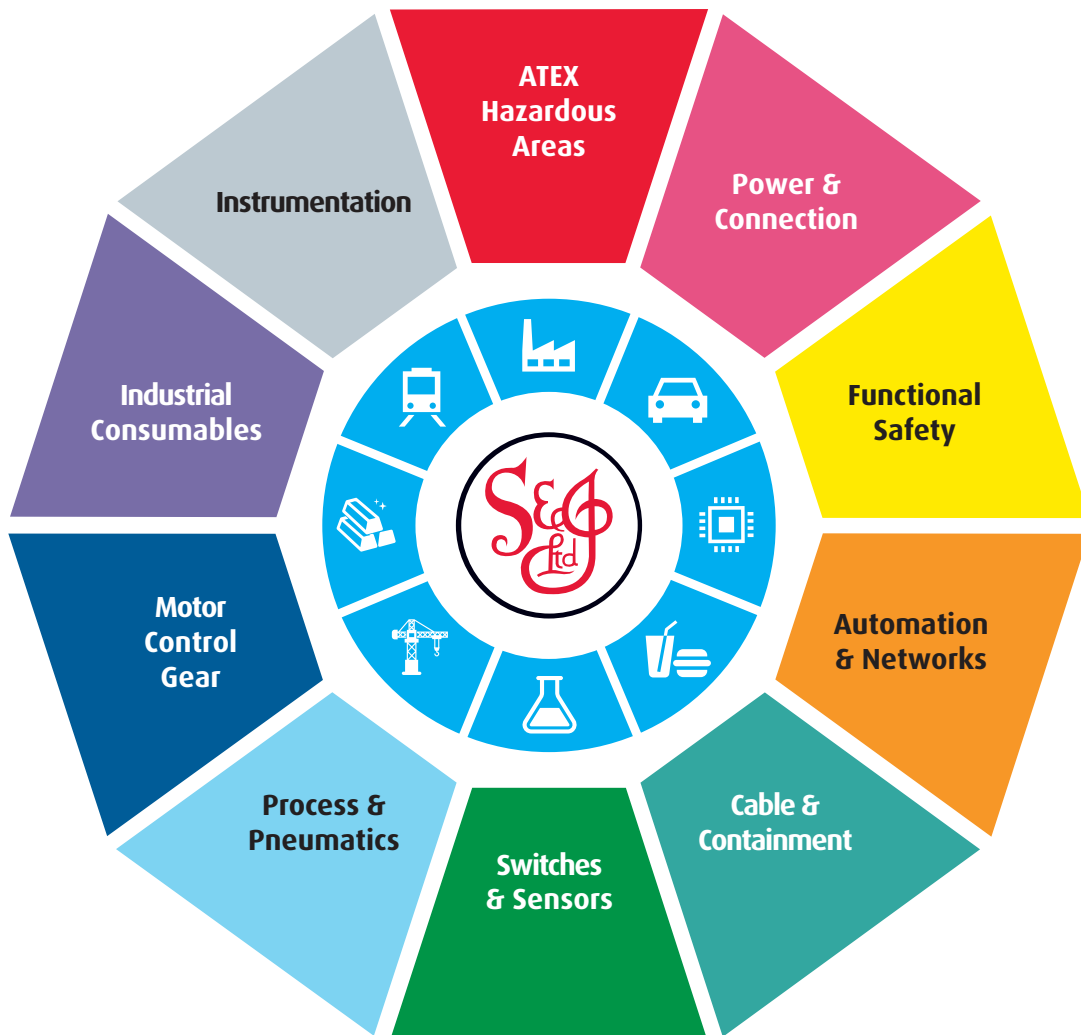
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