

ASi-3 Ethernet/IP Gateway in Stainless Steel

EtherNet/IP to ASi

Recognition of Duplicate ASi Addresses

ASi Earth Fault Detector integrated

ASi Noise Detector integrated



(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)	Article no.
	EtherNet/IP ASi	Gateway	EtherNet/IP	1 ASi network, 1 ASi Master	no, max. 8 A/ ASi network	RS 232	yes	yes	BW1828
	EtherNet/IP ASi	Gateway	EtherNet/IP	2 ASi networks, 2 ASi Masters	no, max. 8 A/ ASi network, redundant supply	RS 232	yes	yes	BW1829
	EtherNet/IP ASi	Gateway	EtherNet/IP	2 ASi networks, 2 ASi Masters	yes, max. 4 A/ ASi network	RS 232	yes	yes	BWU1833

(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 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.

"no, max. 8 A/ASi network, redundant supply": 1 power supply per ASi network. Gateway is powered in normal operation from one of the two ASi power supplies. Should one ASi power supply fail, switching to the other ASi power supply allows all the diagnostics functions to be maintained and the unaffected ASi network continues to operate.

"no, max. 8 A/ASi network": 1 power supply per ASi network.

(4) **Diagnostic and configuration interface**

"RS 232": Access to ASi Master and Safety Monitor with Bihl+Wiedemann software by using an adapter cable via RS 232 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 hand held addressing device.

(6) **ASi fault detector**

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

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Article no.	BW1828	BW1829	BWU1833
Interface			
Ethernet interface	10/100 MBaud Ethernet, RJ-45 socket RS 232 diagnostic interface		
Baud rate	10/100 MBaud		
ASi			
ASi specification	3.0		
Cycle time	150 μ s * (number of slaves + 2)		
Operating voltage	30 V _{DC} (20 ... 31,6 V) (PELV voltage)		
Display			
LCD	menu, ASi indication of slave addresses, error messages in plain text		
LED power (green)	power ON		
LED net (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 slave 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 50295 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		620 g
Dimensions (W / H / D in mm)	100 / 120 / 83		

Article no.	Operating current		
	Master power supply, max. 200 mA out of ASi circuit 1 (ca. 70 mA ... 200 mA), max. 200 mA out of ASi circuit 2 (ca. 70 mA ... 200 mA); in sum max. 270 mA	Version „1 gateway, 1 power supply for 2 ASi networks“, approx. 250 mA (PELV voltage)	Master power supply, ca. 300 mA out of ASi circuit
BW1828	-	-	•
BW1829	•	-	-
BWU1833	-	•	-

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Article no.	BW1828	BW1829	BWU1833
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	-	•	-
In version 1 gateway, 1 power supply for 2 ASi circuits: only 1 Gateway + 1 ASi power supply for 2 ASi networks	-	-	•

Accessories:

- Software "ASi Control Tools" with serial transmission cord for connection of the ASi Master (art. no. BW1602)
- Power supplies, e.g.: ASi power supply, 4 A (art. no. BW1649), Power supply 4 A (art. no. BW1597)/8 A (art. no. BW1598) for BWU1833
(further power supply units can be found at www.bihl-wiedemann.de/en/products/accessories/power-supplies)
- Cross-Link cable (art. no. BW1304)