ASi-3 EtherCAT Gateways in Stainless Steel

EtherCAT to ASi
1 / 2 ASi-3 Master

Recognition of Duplicate ASi addresses

ASi Earth Fault Detector integrated

ASi Noise Detector integrated

(figure similar)

Figure	Type	Art	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.
	EtherCAT ASi	Gateway	EtherCAT	2 ASi networks, 2 ASi Masters	yes, max. 4 A/ASi network	RS 232	yes	yes	**BWU2164**

[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

[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**
"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 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, ...

ASi-3 EtherCAT Gateways in Stainless Steel

Article no.	BWU2164
Interface	
EtherCAT interface	according to IEEE 802.3 (RJ-45 connector)
Baud rates	100 MBaud
ASi	
ASi specification	3.0
ASi cycle time	150µs * (number of slaves + 2)
Operating voltage	ASi voltage 30V DC
Display	
LCD	displaying slave addresses and error messages
LED power (green)	power on
LED ect run (green)	EtherCAT-Network active
LED config error (red)	configuration error
LED U ASi (green)	ASi voltage OK
LED ASi active (green)	ASi normal operation active
LED prg enable (green)	automatic address programming enabled
LED prj mode (gelb)	master is in configuration mode
Environment	
Applied standards	EN 61 000-6-2 EN 61 000-6-4
Housing	the master is in configuration mode
Operating temperature	0°C … +55°C
Storage temperature	-25°C … +85°C
Protection class IEC 60 529	IP20
Maximum tolerable shock and vibration stress	EN 61 131-2
Voltage of insulation	≥ 500V
Dimensions (W / H / D) in mm	85 / 120 / 83
Weight	500g

Art. no.	Operating current		
	Master power supply approx. 200mA out of ASi circuit	**Master power supply, max. 200mA out of ASi circuit 1 (approx. 70mA ... 200mA) max. 200mA out of ASi circuit 2 (approx. 70mA ... 200mA)**	**Version "1 gateway, 1 power supply for 2 ASi circuits", approx. 250mA (PELV supply)**
BWU2164	–	–	●

BW2164

- 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 cable for ASi master in stainless steel (art. no. BW1602)
- Cross-Link cable (art. no. BW1304)
- Power supplies, e.g.: ASi power supply, 4 A (art. no. BW1649), ASi power supply, 8 A (art. no. BW1997)
  (further power supply units can be found at *www.bihl-wiedemann.de/en/products/accessories/power-supplies*)

Bihl+Wiedemann GmbH · Floßwörthstr. 41 · D-68199 Mannheim · Phone: (+49) 621/33996-0 · Fax: (+49) 621/3392239 · eMail: mail@bihl-wiedemann.de

page 2   Mannheim, 10.3.20   We reserve the right to change any data   www.bihl-wiedemann.de