

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	Fieldbus interface (1)	ASi-5/ASi-3	Number of ASi networks, number of ASi Master (2)	Integrated decoupling, ASi current measurement in the gateway (3)	Diagnostic and configuration interface (4)	Recognition of duplicate ASi addresses (5)	ASi fault detector (6)	Article no.
	EtherCAT	ASi-3 compatible	2 ASi networks, 2 ASi-3 Masters	yes, max. 4 A/ASi network	Ethernet diagnostic	yes	yes	BWU2720

(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-3 Master.

"Double Master": 2 ASi networks, 2 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.

"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 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, ...

ASi-3 EtherCAT Gateways in Stainless Steel

Article no.	BWU2720
Fieldbus Interface	
Type	EtherCAT; according to IEEE 802.3 (RJ-45 connector)
Baud rates	100 MBaud
Diagnostic Interface	
Type	Ethernet RJ-45 according to IEEE 802.3
ASi	
ASi specification	3.0
ASi cycle time	150µs * (number of ASi-3 nodes + 2)
Operating voltage	30 V _{DC} (20 ... 31,6 V)
Display	
LCD	displaying ASi addresses and error messages
LED power (green)	power on
LED ser active (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
Pollution degree	2
Protection class IEC 60 529	IP20
Tolerable loading referring to humidity	according to EN 61131-2
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)	Cost-effective power for 2 ASi networks with 1 power supply, approx. 250mA (PELV supply)
BWU2720	-	-	•

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.: 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)