ASi-3 CANopen Gateway in Stainless Steel



Recognition of duplicate ASi addresses

ASi Earth Fault Detector integrated

ASi Noise Detector integrated







Figure	Fieldbus interface ⁽¹⁾		ASi networks, number of		configuration	Recognition of duplicate ASi addresses ⁽⁵⁾	ASi fault detector ⁽⁶⁾	Article no.
	CANODED	ASi-3 compatible	2 ASi networks, 2 ASi-3 Masters	yes, max. 4 A/ ASi network	RS 232	yes	yes	BWU1823

(1) Fieldbus interface

Communication interface between fieldbus and gateway: interfaces for standardized fieldbus systems in industrial automation. CANopen ASi Gateway: interface for a CANopen 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

"RS 232": Access to ASi master and safety monitor with Bihl+Wiedemann proprietary 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.

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.

ASi fault detector

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

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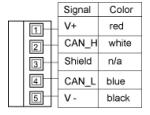
Article no.	BWU1823		
Fieldbus Interface			
Туре	CANopen (5-pin plug), RS 232 diagnostic interface		
Baud rates	10 to 1000 KBaud		
CANopen features	extended boot-up, minimum boot-up, life guarding		
	COB ID Distribution: DBT, SDO, Default		
	Node ID Distribution: SDO, Switch		
	No of PDOs: up to 35 Rx, 35Tx PDO Modes: async, cyclic, acyclic		
	Device Specification: CiA DS-301		
Diagnostic Interface			
Туре	RS 232		
ASi			
ASi specification	3.0		
Cycle time	150 μs * (number of ASI-3 nodes + 2)		
Operating voltage	30 V _{DC} (20 31,6 V) (PELV voltage)		
Display			
LCD	menu, ASi indication of addresses, error messages in plain text		
LED power (green)	power ON		
LED ser.active (green/red)	CANopen 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)	in configuration mode		
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 62026-2,		
	EN 61000-6-2,		
	EN 61000-6-4, EN 50581		
	EN 60529		
Operating altitude	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	acc. EN 61131-2		
Maximum tolerable shock and vibration stress	acc. EN 61131-2		
Voltage of insulation	≥ 500V		
Dimensions (W / H / D in mm)	85 / 120 / 83		
Weight	520 g		

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	Operating current					
Article no.	Master power supply, ca. 200 mA out of ASi circuit	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	Cost-effective power for 2 ASi networks with 1 power supply, approx. 250 mA (PELV voltage)			
BWU1823	_	_	•			

Pin assignment:



Accessories:

- Software "ASi-Control-Tools" with serial transmission cord for connection of the ASi Master (art. no. BW1602)
- · CANopen master simulator (art. no. BW1453)
- Data transmission cord for ASi Gateways with CAN interface (art. no. BW1226)
- 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. BW4221), 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)