

ASi-5 - Great data bandwidth, short cycle times

Compatible with all ASi generations

ASi-5/ASi-3 CIP Safety over Sercos Gateway with integrated Safety Monitor

ASi-5 master and ASi-3 master in one device

CIP Safety over Sercos and Safe Link in one device

• up to 450 Devices

CIP Safety Originator integrated

2 ASi master, Sercos device

· switch integrated

Safe ASi outputs are supported

up to 64 independent ASi outputs
 Multiple safe ASi outputs possible via a single ASi address

OPC UA server and integrated web server for simplified diagnostics

Selection of Mode of Safe Operation

Significantly improved response times

Applications up to category 4/PLe/SIL 3

Chip card for storage of configuration data



Figure			Inputs Safety, expandable to	Safety, SIL 3, cat. 4	Safety out- puts, indepen- dent according to SIL 3, expand- able to	communication	(4)	1 power supply, 1 gateway for 2 ASi networks, inexpensive power sup- plies (2)		Art. no.
	Safety, Sercos, ASi-5/ASi-3	1	max. 62 x 2 channels, max. 1922 in max. configuration	•		Sercos +	2 ASi net- works, 2 ASi masters	,	Ethernet diagnostic	BWU3845

- (1) Number of ASi networks, number of ASi Master "Double Master": 2 ASi networks, 2 ASi Masters.
- (2) 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.
- (3) Diagnostic and configuration interface "Ethernet diagnostic": Access to ASi Master and Safety Monitor with Bihl+Wiedemann software by using the Ethernet diagnostic interface.

The latest version of the device description file of the gateway is available in the "Downloads" section of the respective device.



(figure similar)

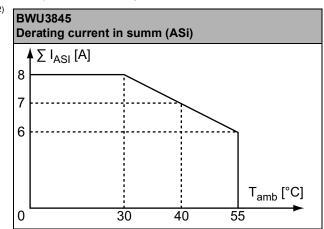


Article no.		BWU3845				
Interface						
Ethernet interface		2 x RJ-45: 100MBaud, 2-Port-Switch, Sercos III				
Baud rates		100 MBaud				
CIP Safety Originator		up to 32 instances				
CIP Safety Originator Card slot		chip card (512 kB) for storage of configuration data				
ASi		one card (C12 ND) for deriage of configuration data				
ASi specification		ASi-3 + ASi-5				
Cycle time		Cycle time ASi-3 (variable):				
		150 μs * (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)				
Current per ASi	up to 30 °C	4 A per ASi network, ∑ (ASi) 8 A ⁽²⁾				
network	up to 40 °C	4 A per ASi network, ∑ (ASi) 7 A ⁽²⁾				
	up to 55 °C	4 A per ASi network, Σ (ASi) 6 A (2)				
A C: Davis = 0.4\/ = = =		yes				
ASi Power24V cap	Dability (*/	yes				
Operating voltage						
Max current consu	ımntion					
Display	шириоп	-				
LCD		indication of ASi addresses and error messages in plain text				
LED power (green	١	indication of ASi addresses and error messages in plain text				
LED Sercos (green	,	power on Sorros communication activo				
LED config error (r	,	Sercos communication active				
LED U ASi (green)	,	configuration error ASi voltage o.k.				
LED ASi active (gr		ASi voltage o.k. ASi normal operation active				
LED prg enable (g		automatic address programming enabled				
LED prj mode (yel		configuration mode active				
LED AUX (green)	,					
LEDs SI1 SI6 (y	rellow)	_				
LEDs SO1 SO6	· · · · · · · · · · · · · · · · · · ·	_				
UL-specifications						
External protection		an isolated source with a secondary open circuit voltage of ≤30 V DC with a 3 A maximum over cur-				
		rent 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 62026-2 EN 61000-6-2				
		EN 61000-6-4				
		EN 62061, SIL 3				
		EN 61508. SIL 3				
		EN ISO 13849-1, PLe				
Operating altitude		2000 m				
Ambient temperature		-25 °C +55 °C (no condensation permitted)				
Storage temperature		-25 °C +85 °C				
Pollution degree		2				
Housing Protection category		stainless steel, for DIN rail mounting				
Protection category Maximum tolerable shock and		IP20				
Maximum tolerable shock and vibration stress		according to EN 61131-2				
Voltage of insulation		≥500 V				
Weight		800 g				
Dimensions (W / H / D in mm)		85 / 120 / 106				
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(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.

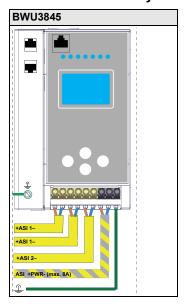


	Operating current						
Article no.	master power supply, approx 300 mA out of ASi network	master power supply, max. 300 mA out of ASi circuit 1 (approx. 70 mA 300 mA), max. 300 mA out of ASi circuit 2 (approx. 70 mA 300 mA); in sum max. 370 mA	Version "1 Gateway, 1 power supply for 2 ASi circuits", ca. 350 mA (PELV voltage)				
BWU3845	-	-	•				

	BWU3845
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	-
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 is needed for both 2 ASi circuits	•



Connections: Gateway



Accessories:

- Safe contact expander, 1 or 2 independent channels (art. no. BWU2548 / BWU2539)
- · Chip card, memory capacity 512 kB (art. no. BW4055)
- Bihl+Wiedemann Safety Suite Safety Software for Configuration, Diagnostics and Commissioning (art. no. BW2916)
- 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)