

AS-i 3.0 PROFIBUS Gateway with integrated Safety Monitor

**Bihl
+ Wiedemann**
...

THE AS-INTERFACE MASTERS

AS-i 3.0 PROFIBUS-DP Gateway/Link with integrated Safety Monitor/Power Supply Decoupling Unit

Gateway + Safety Monitor in one housing:

- Full functional range
of Bihl+Wiedemann PROFIBUS Gateway BWU1567!
- Enhanced functional range
of Bihl+Wiedemann Safety Monitor BWU2044!
- Compatible with the wide range of Bihl+Wiedemann power supplies

1 AS-i 3.0 Master PROFIBUS Slave



Chip card for storage of configuration data



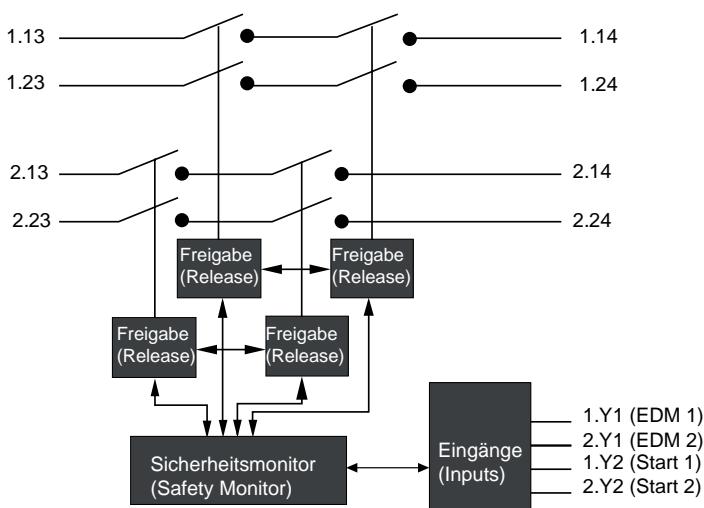
Article no.	BWU2109
	safe AS-i outputs are not supported
PROFIBUS interface	according to IEC 61 158
Baud rates	9,6 kBaud up to 12 000 kBaud, automatic recognition
DP functions	imaging of the AS-i slaves as I/O data of the PROFIBUS complete diagnosis and configuration via the PROFIBUS DP
Serial interface	RS 232
AS-i cycle time	150 µs * (number of slaves + 2)
Safety Monitor	
Release circuit	2-channel
Start delay	< 10 s
Respond delay	< 40 ms
Inputs:	2 x EDM: inputs of external device monitoring circuits 1 and 2 2 x START: start inputs, output circuits 1 and 2 switching current statical 4 mA at 24 V, dynamic 30 mA at 24 V (T=100µs)
Outputs:	4 x output switching elements, output circuits 1 and 2 max. contact load: 3 A AC-15 at 30 V, 3 A DC-13 at 30 V
Card slot	chip card for storage of configuration data
Displays	
LCD	indication of slave addresses and error messages
LED power	power on
LED PROFIBUS	PROFIBUS master recognized
LED config error	configuration error
LED U AS-i	AS-i voltage OK
LED AS-i active	AS-i normal operation active
LED prg enable	automatic address programming enabled
LED prj mode	configuration mode active
Buttons	4
Electrical data	
Operating current	master power supply, approx. 300 mA out of AS-i network
Operating voltage	30 V, 9 W
Voltage of insulation	≥ 500 V
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.

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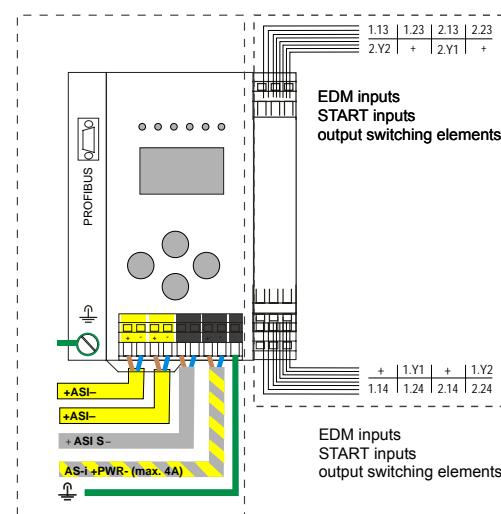
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cTÜVus	The device BWU2109 from Bihl+Wiedemann GmbH was safety certified by TÜV Rheinland of North America, Inc. according to UL-standards and meet the safety requirements for the North American market.
Standards	EN 61 000-6-2 EN 61 000-6-4 EN 62 061:2005, SILCL 3 EN 61 508:2001, SIL 3 EN 954-1, category 4 EN ISO 13 849-1:2008, performance level e
Housing	AS-i master housing in stainless steel
Ambient operating temperature	0°C ... +55°C
Storage temperature	-25°C ... +85°C
Dimensions (L / W / H in mm)	120 / 100 / 96
Protection category (IEC 60 529)	IP20
Tolerable loading referring to impacts and vibrations	according to EN 61 131-2
Weight	800 g

Safety Monitor block diagram:



Connections:

Gateway + Safety Monitor



- Software ASIMON 3 G2 and AS-i Control Tools with serial cable for AS-i Master/monitor in stainless steel (art. no. BW2071)
- Software ASIMON with serial cable for AS-i Master/monitor in stainless steel BW2027, BW2109 and BW2044 (art. no. BW2145)
- Serial PROFIBUS Master (art. no. BW1258)
- PROFIBUS DP Master Simulator (art. no. BW1257)