AS-i 3.0 PROFIBUS Gateway, PROFIsafe for 1 AS-i network

Bihl+Wiedemann

THE AS-INTERFACE MASTERS

PROFIsafe for 1 AS-i network

- **Redundant power supply out of AS-i:**
  all fundamental functions of the device remain available even in case of power failure in one of the two AS-i networks
- **AS-i-Safety input slaves report via PROFIsafe**
- **AS-i-Safety output slaves switch via PROFIsafe**

1 AS-i 3.0 Single Master, PROFIBUS-Slave

- **Full functional range of Bihl+Wiedemann PROFIBUS Gateway BWU1567!**
- **Compatible with the wide range of Bihl+Wiedemann power supplies**

Safe AS-i outputs are supported on both AS-i networks

- **Multiple safe AS-i outputs possible via a single AS-i address**
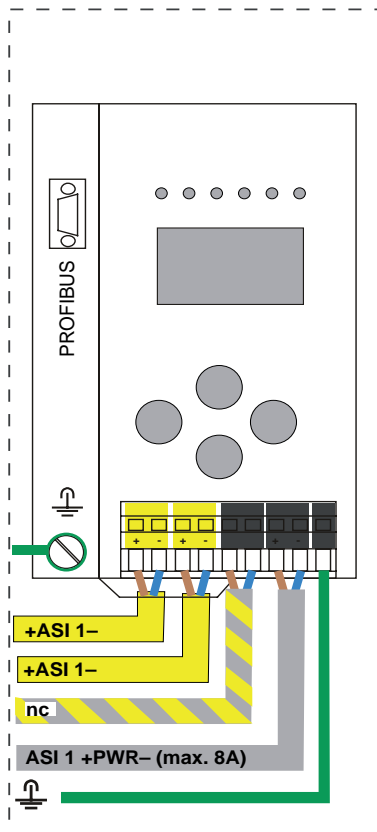
Chip card for storage of configuration data

Article number	BWU2433
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)
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 addresses programming enabled
LED *prj mode*	configuration mode active
Electrical data	
Operating current	master power supply, max. 300 mA out of AS-i circuit 1 (approx. 70 mA ... 300 mA), max. 300 mA out of AS-i circuit 2 (approx. 70 mA ... 300 mA); in sum max. 370 mA
Operating voltage	30 V, 9 W
Voltage of insulation	$\geq$ 500 V
UL-specifications (UL508)	
External Protection	An isolated source with a secondary open circuit voltage of $\leq$ 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.
cTÜVus	The devices BWU2433 from Bihl + Wiedemann GmbH were safety certified by TÜV Rheinland of North America, Inc. according to UL-standards and meet the safety requierements for the North American market.

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Article number	BWU2433
Standards	EN 50 295 EN 61 000-6-2 EN 61 000-6-4 EN 954-1:1996, category 4 EN 62 061:2005, SIL 3 EN 61 508:2006, SIL 3 EN ISO 13 849-1:2008, performance level e EN ISO 13 849-2:2008
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

Connections:

Gateway

+ASI 1–

+ASI 1–

nc

ASI 1 +PWR– (max. 8A)

Accessories:

- ASIMON 3 G2 and AS-i Control Tools with serial cable for AS-i Master/Monitors in stainless steel (art. no. BW2071)
- Serial PROFIBUS Master (art. no. BW1258)
- PROFIBUS-DP Master simulator (art. no. BW1257)