

## Safety Bridge

### 1 Safety Monitor for 2 AS-i networks

- Operation using a single Monitor configuration!
- Monitor processes safety slaves on two AS-i networks
- Coupling between the two networks superfluous

### Safe Link via PROFINET

#### Safe AS-i outputs are supported

- up to 32 independent AS-i outputs  
Multiple safe AS-i outputs possible via a single AS-i address



#### Monitor configuration can be, arbitrarily" large

- 256 configuration blocks (previously 48)  
Identical reaction time due to artificial limitation to 256 configuration blocks

### Applications up to category 4/PLe/SIL 3

BWU2781

### Chip card for storage of configuration data



Article Nr.	BWU2781
<b>Interfaces</b>	
PROFINET interface	2 x RJ-45, 2 port-switch
Conformance Class	B
Baud rates	10/100 MBaud
<b>AS-i</b>	
Cycle time	150 µs * (number of slaves + 2)
Operating voltage	AS-i voltage 30V DC
<b>Safety Monitor</b>	
Release circuits	32
Start delay	< 10 ms
Max. turn-off time	< 40 ms
Card slot	chip card for storage of configuration data
<b>Display</b>	
LCD	indication of slave addresses and error messages in plain text
LED power	power on
LED PROFINET	PROFINET 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

# AS-i 3.0 PROFINET Gateways with integrated Safety Monitor



<b>Article Nr.</b>	<b>BWU2781</b>
<b>UL-specifications (UL508)</b>	
External protection	an isolated source with a secondary open circuit voltage of $\leq 30V$ DC with a 3A 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 device • BWU2781 from Bihl + Wiedemann GmbH is 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 61 508:2010, SIL 3 EN ISO 13 849-1:2008/AC:2009, Performance-Level e
<b>Environment</b>	
Ambient operating temperature	0°C ... +55°C
Storage temperature	-25°C ... +85°C
Housing	Stainless Steel
Protection category IEC 60 529	IP20
Tolerable loading referring to impacts and vibrations	according to EN 61 131-2
Voltage of insulation	$\geq 500V$
Dimensions (W / H / D in mm)	109 / 120 / 96
Weight	800 g

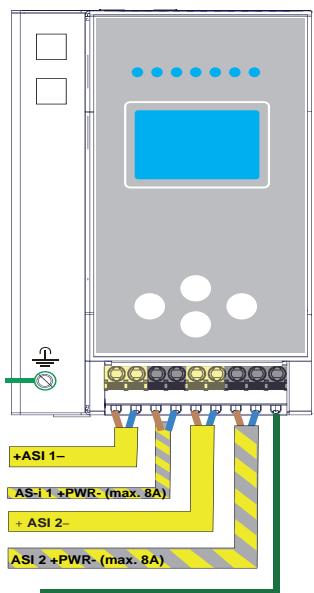
Article No.	Diagnostic interface	AS-i Safety outputs are supported	Number of AS-i circuits Safety Monitor	Max. number of release circuits	Configuration blocks
<b>BWU2781</b>	Ethernet <sup>1</sup>	yes	2	32	256 devices + Safe Link via PROFINET

<sup>1</sup> ASIMON, AS-i Control Tools via Ethernet (RJ-45 PROFINET-interface)

Operating current			
Article No.	master power supply, max. 300mA out of AS-i circuit 1 (approx. 70mA ... 300mA), max. 300mA out of AS-i circuit 2 (approx. 70mA ... 300mA); in sum max. 370mA	Version „1 gateway, 1 power supply for 2 AS-i networks“ approx. 250mA (PELV Spannung)	master power supply, approx 300mA out of AS-i network
<b>BWU2781</b>	•	–	–

## Connections: Gateway + Safety Monitor

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## Accessories:

- Safety software for configuration, diagnostics and programming (art. no. BW2501)
- AS-i Power Supply 4A (art. no. BW1649) / AS-i Power Supply 8A (art. no. BW1997)