

AS-i Safety Monitor in stainless steel

1 AS-i Safety Monitor in Stainless Steel for 2 AS-i networks

**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**

Chip card for storage of configuration data



Article no. BWU2044: AS-i Safety Monitor Generation II (1 AS-i network, 2 release circuits, safe AS-i outputs are not supported, monitor configuration for 48 devices)

The AS-i Safety Monitor in Stainless Steel is an emergency stop control device. It monitors the assigned safety-related AS-i sensors by the configuration software ASIMON 3 G2. In case an emergency stop should be required or if a fault occurs, the AS-i safety monitor in its protective mode can switch off the system within a response time of 40 ms at most.

The safety monitor in the second generation offers a stainless steel housing with a LCD display for indication of slave addresses

and error messages. The configuration data are stored in the integral EEPROM and they can be overwritten by data stored on the chip card and vice versa.

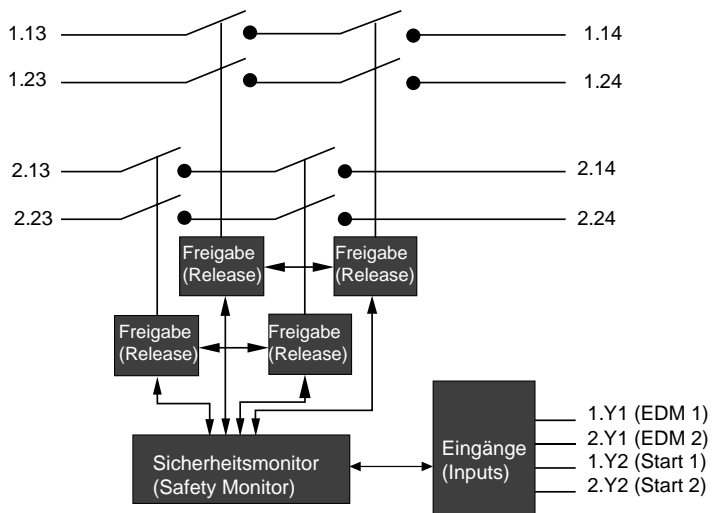
The AS-i Safety Monitor enables the use of sensor-controlled safety components according to EN 954-1 up to category 4/SIL 3. Usage of extensive logic components and formation of AS-i groups is possible, too.

Article no.	BWU2044
Safety monitor	advanced monitor, generation II
Release circuit	2-channel
Start delay	< 10 s
Respond delay	< 40 ms
Baud rate	19,2 Kbaud, no parity, 1 start bit, 1 stop bit, 8 data bits
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
Interface	RS 232, chip card slot
Displays/buttons	
LCD	indication of slave addresses and error messages
LED power	AS-i voltage OK
LED U AS-i / fault	communication error on AS-i line / error lock, release circuit active
LED ready	LED on: start-up/restart-disable active LED flashing: external test necessary
2 x LEDs channel 1, channel 2	contacts of the safety outputs (OSSD) are: LED off: open / LED on: closed / LED flashing: delay time is running at stop category 1
Buttons	4
Electrical data	
Operating voltage	24 V DC (26,5 ... 31,6 V out of AS-i)
Operating current	max. 200 mA out of AS-i circuit 1 (approx. 45 mA ... 200 A), max. 200 mA out of AS-i circuit 2 (approx. 45 mA ... 200 mA); in sum max. 245 mA
Voltage of insulation	≥ 500 V

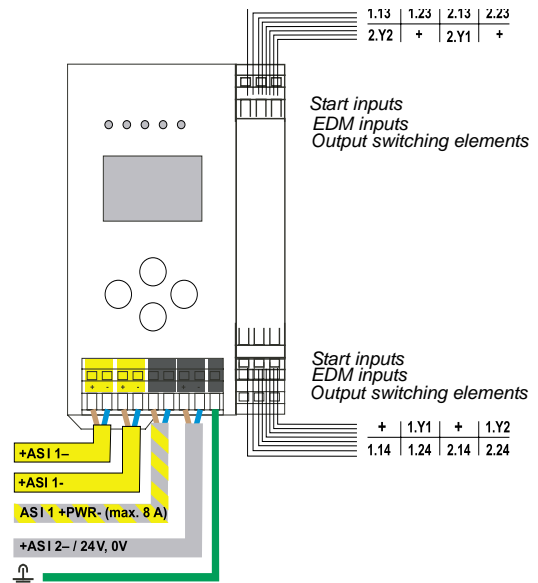
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UL-specifications (UL508)	
External Protection	An isolated source with a secondary open circuit voltage of $\leq 30 V_{DC}$ with a 3 A maximum over current protection. Over current protection is not required when a Class 2 source is employed.
in general	UL mark does not provide UL certification for any functional safety rating or aspects of the above devices.
CTÜVUS	The device BWU2044 from Bih+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	stainless steel
Ambient operating temperature	0°C ... +55°C
Storage temperature	-25°C ... +85°C
Dimensions (L / W / H in mm)	120 / 85 / 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:



Accessories:

Programming software ASIMON 3 G2 with cable (art. no. BW2071)