

1 ASi Safety Monitor in Stainless Steel for 2 ASi networks

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

Chip card for storage of configuration



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

The ASi Safety Monitor in Stainless Steel is an emergency stop control device. It monitors the assigned safety-related ASi sensors by the configuration software ASIMON 3 G2. In case an emergency stop should be required or if a fault occurs, the ASi 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

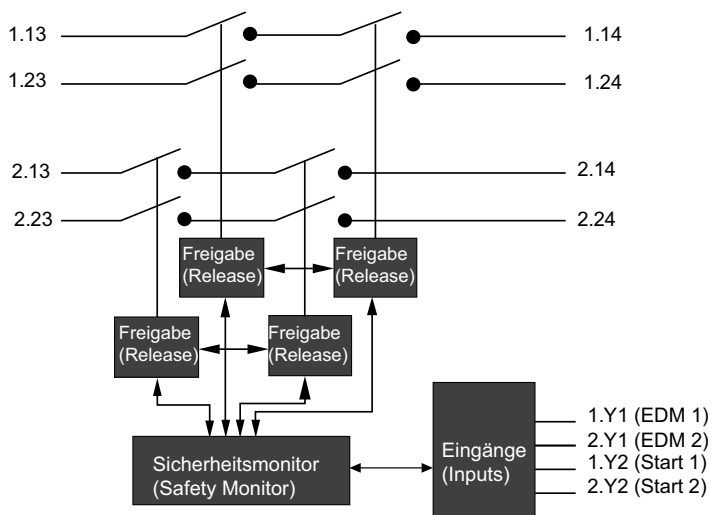
and error messages. The configuration data are stored in the integral EEPROM and they can be overwritten by data stored on the chip card and vice versa.

The ASi 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 ASi groups is possible, too.

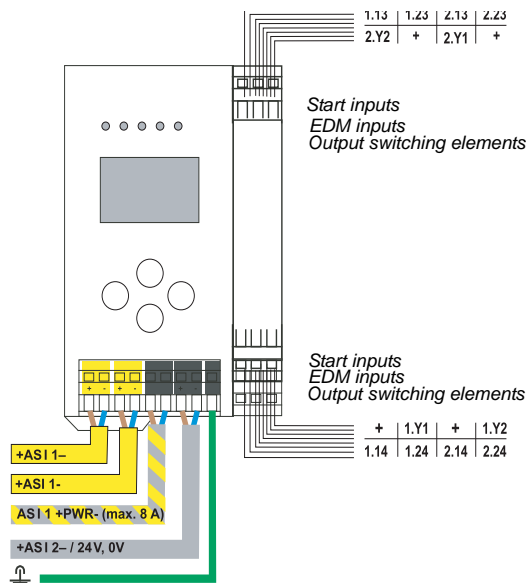
Article no.	BWU2044
Safety monitor	advanced monitor, generation II
Release circuit	2
Start delay	< 10 s
Respond delay	< 40 ms
Baud rate	19,2 Kbaud, no parity, 1 start bit, 1 stop bit, 8 data bits
Inputs	2 x EDM / inputs of external device monitoring circuits 1 and 2 2 x Start / start inputs, output circuits 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	ASi voltage OK
LED U ASi / fault	communication error on ASi 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 ASi)
Operating current	max. 200 mA out of ASi circuit 1 (approx. 45 mA ... 200 A), max. 200 mA out of ASi 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 ≤ 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.
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
Environment	
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)