

AS-i Safety Monitor in Stainless Steel

AS-i Safety Monitor Generation II

Emergency stop control device in stainless steel housing

2-channel release circuits

Meets safety-relevant standards according to EN 954-1 up to category 4/SIL 3

LCD display

Chip card for storage of configuration data

Bernstein AG

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Benennung: ASI SMON

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Article no. BW2186: AS-i Safety Monitor Generation II, supports safe AS-i outputs

Article no. BW2044: AS-i Safety Monitor Generation II, safe AS-i outputs are not supported

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. 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.

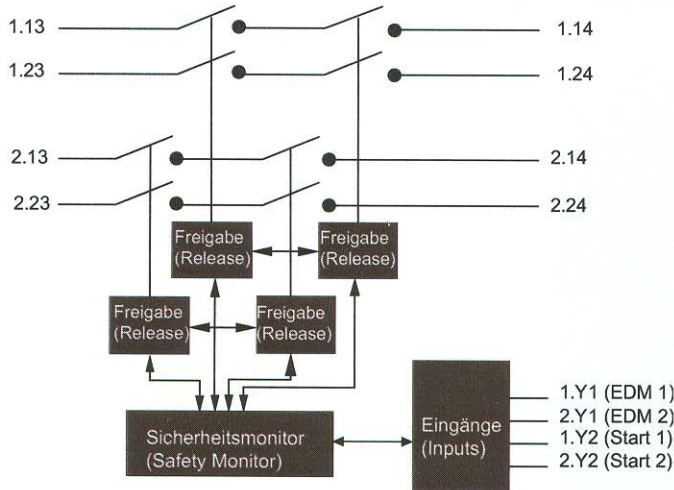
The AS-i Safety Monitor enables the use of sensor-controlled safety components according to EN 954-1 up to category 4/SIL 3. Usage of extensive logic components and formation of AS-i groups is possible, too.

Article no.	BW2044 / BW2186
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	approx. 200 mA out of 24 V _{DC} and approx. 45 mA out of AS-i
Standards	EN 61 000-6-2, EN 61 000-6-4 EN 62 061, SIL 3 EN 61 508, SIL 3 EN 954-1, category 4 EN 13 849, performance level e
Housing	stainless steel
Ambient operating temperature	0°C ... +55°C

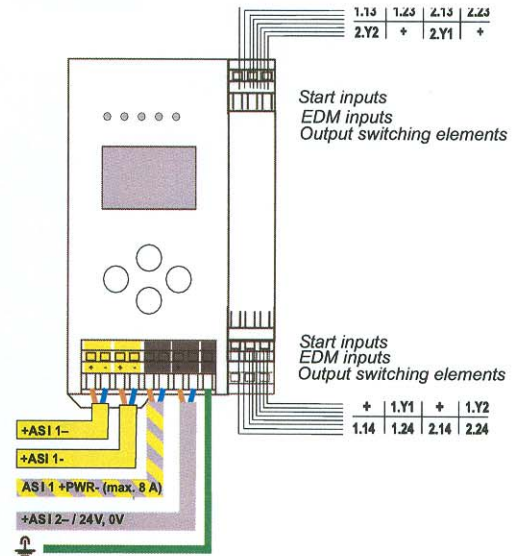
AS-i Safety Monitor in Stainless Steel

Article no.	BW2044 / BW2186
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 with cable (article no. BW2071)