

## Safety Basic Monitors

### 2 fast electronic safe outputs

### Up to 4 x 2-channel safe inputs

- optionally the safe inputs will be used as well as standard inputs and signal outputs

### Safe AS-i outputs are supported

- max. 8 independent AS-i outputs
- multiple safe AS-i outputs possible via a single address


### Chip card for storage of configuration data

### Protection category IP20



(Figure similar)

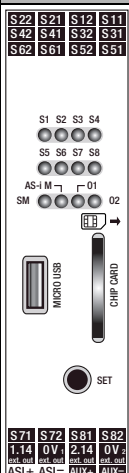


Figure	Model	Inputs Safety, SIL 3, Cat. 4	Inputs safety, expandable to	Outputs Safety, SIL 3, cat. 4	Safety outputs, independent according to SIL 3, expandable to	Safety communication	Fieldbus interface	1 power supply, 1 gateway for 2 AS-i networks, inexpensive power supplies	Diagnostic and configuration interface	Article no.
	Safety Basic Monitor with extended features	4 x 2 channels inputs 3+4 optional for standstill monitor	max. 31 x 2 channels	2 release circuits; 2 x fast electronic safe output	max. 8	–	Signaling contacts	yes, max. 0,5 A/AS-i network, max. 8 A with AS-i power supply	USB	<b>BWU2569</b>
	Safety Basic Monitor	4 x 2 channels, inputs 3+4 optional for standstill monitor	max. 31 x 2 channels	2 release circuits; 2 x fast electronic safe output	max. 8	–	Signaling contacts	yes, max. 0,5 A/AS-i network, max. 8 A with AS-i power supply	USB	<b>BWU2441</b>

Article no.	BWU2441	BWU2569
<b>Connection</b>		
Connection	COMBICON clamp	
<b>Safety Monitor</b>		
Respond delay	< 40 ms	
<b>AS-i Master</b>		
AS-i Master	integrated	
<b>Interface</b>		
Diagnostic and configuration interface	USB	
	chip card slot	
<b>AS-i</b>		
Voltage	18 ... 31,6 V	
Max. current consumption	200 mA	
<b>AUX</b>		
Voltage	20 ... 30 V (PELV)	
Max. current consumption	4 A max.	
<b>Input</b>		
Number	4 x 2-channels safe inputs Cat. 4 or 8 standard in- and signaling outputs	
Switching current	static 4 mA at 24 V, dynamic 15 mA at 24 V (T = 100 µs)	
Safety signal	floating contacts inputs 3+4 optional for OSSDs	
Supply voltage	of AUX (24 V auxiliary power)	
Network connection between the safe input terminals	max. resistance 150 Ω	

Article no.	BWU2441	BWU2569
<b>Output</b>		
2 (4) output switching elements	semiconductor outputs (output circuits 1 and 2) max. contact load: 700 mA DC-13 at 24 V	
Supply voltage	of AUX (24 V auxiliary power)	
Max. output current signal outputs	10 mA each output	
Max. output current for OSSD supply	1,4 A (S71)	
Test pulse	if output is on: minimum interval between 2 test pulses: 250 ms (as from Safety Version 4.3); maximum pulse width 1 ms	
<b>Display</b>		
LED S1 ... Sn (yellow)	state of input S1 ... S8	
LED SM (green/yellow/red)	state of Safety Monitor	
LED AS-i M (green/yellow/red)	state of AS-i Master	
LED O1 (green/yellow/red)	output 1 has switched	
LED O2 (green/yellow/red)	output 2 has switched	
1 button	service	
<b>Environment</b>		
Applied standards	EN 61508:2001 EN 62061:2005 EN ISO 13849-1:2008/AC:2009	
Housing	DIN-rail mounting	
Operating temperature	0 °C ... +55 °C	
Storage temperature	-25 °C ... +85 °C	
Protection class EN 60529	IP20	
Voltage of insulation AS-i/AUX	500 V	
Weight	160 g	
Dimensions (W / H / D in mm)	22,5 / 99 / 114	

Article no.	BWU2441	BWU2569
<b>AS-i Safety Monitor</b>		
Safety Monitor	Safety Basic Monitor	Safety Basic Monitor with extended features
Optimized to AS-i Monitor operations	no	
Release circuits	8	8 additional 8 release circuits (9 ... 16) for actuating standard AS-i outputs
Antivalent switches for local inputs	no	yes
Standstill monitors of local inputs	no	4 x 50 Hz
Standstill/speed monitors of local inputs	no	2 up to 4 axis, up to 400 Hz
<b>Electrical data</b>		
Power supply decoupling unit	integrated	

BWU2441 / BWU2569	Clamps	Description
	S22, S21, S12, S11	safety input terminal input 1
	S42, S41, S32, S31	safety input terminal input 2
	S62, S61, S52, S51	safety input terminal input 3
	S71, S72, S81, S82	safety input terminal input 4
	1.14 <sub>ext.out</sub>	semiconductor output 1
	2.14 <sub>ext.out</sub>	semiconductor output 2
	0 V <sub>ext.out</sub>	mass connection for semiconductor output
	AS-i+, AS-i-	connection to the AS-i Bus
	AUX+ <sub>ext.in</sub> , AUX- <sub>ext.in</sub>	power supply input

### Accessories:

- Software ASIMON 3 G2 and AS-i Control Tools (art. no. BW2501)
- Safe contact expander 1 or 2 independent channels (art. no. BWU2548 / 2539)
- AS-i Safety 4I/2O Module, 4 x 2-channels safety inputs and 2 fast electronic safety outputs in IP20 (art. no. BWU2314) as supplementary module
- AS-i Speed Monitor (art. no. BWU2427) as supplementary module
- USB cable for Safety Basic Monitor (art. no. BW2530)