

## 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 ASi outputs are supported

- max. 16 independent ASi outputs
- multiple safe ASi outputs possible via a single address


### Chip card for storage of configuration data

### Protection category IP20



(Figure similar)

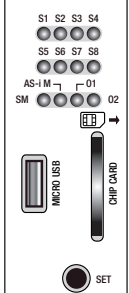


Figure	Model	Inputs Safety, SIL 3, Cat. 4	Inputs safety, expandable to	Outputs Safety, SIL 3, cat. 4	Safety outputs, independent according to SIL 3, expandable to	Safety communication	Fieldbus interface	1 power supply, 1 gateway for 2 ASi networks, inexpensive power supplies	Diagnostic and configuration 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. 16	–	ASi monitors	yes, max. 0,5 A/ASi network, max. 8 A with ASi 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. 16	–	ASi monitors	yes, max. 0,5 A/ASi network, max. 8 A with ASi 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>ASi Master</b>		
ASi Master	integrated	
<b>Interface</b>		
Diagnostic and configuration interface	USB	
	chip card slot	
<b>ASi</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	

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<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 ASi M (green/yellow/red)	state of ASi 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 ASi/AUX	500 V	
Weight	160 g	
Dimensions (W / H / D in mm)	22,5 / 99 / 114	

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<b>ASi Safety Monitor</b>		
Safety Monitor	Safety Basic Monitor	Safety Basic Monitor with extended features
Optimized to ASi Monitor operations	no	
Release circuits	16	
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
	ASi+, ASi-	connection to the ASi Bus
	AUX+ <sub>ext.in</sub> , AUX- <sub>ext.in</sub>	power supply input

### Accessories:

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