

TONE SELECTION SHEET

PLEASE READ PRIOR TO INSTALLATION AND IN CONJUNCTION WITH THE
INSTALLATION & TECHNICAL INFORMATION BOOKLET S00523 (SB150-1)
OR S00527 (SB125-1) SUPPLIED.

Tone Selection: The sounder provides 60 tones to be selected for the alarm stage 2 to 4. Three stages of alarm tones can be preset. **Select** the tone **6 bit binary codes** required from the **tone table** and set via the three (3) DIP switches located on the **Sounder PCB** (see diagram 5).

Volume Control: The sounder has a volume control to adjust the output volume of the sounder component. To set the required output volume, adjust the potentiometer on the PCB (see diagram 5). The potentiometer should be set to fully clockwise position if maximum output volume is needed.

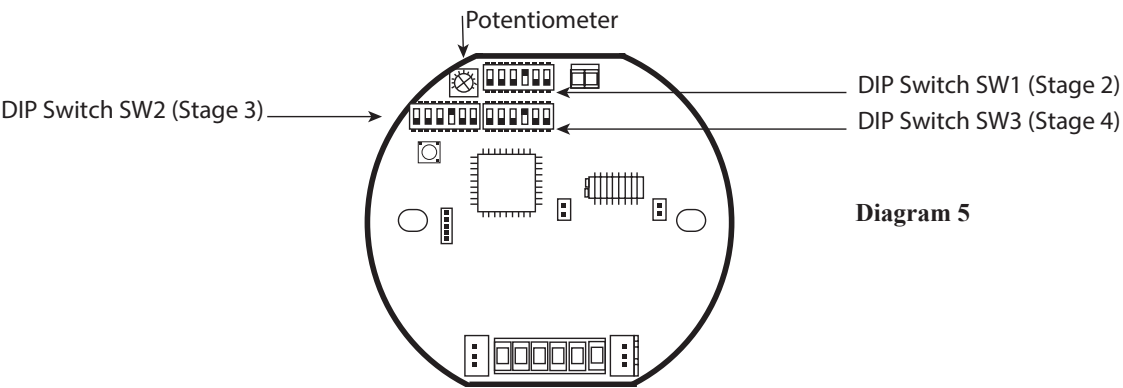


Diagram 5

Cable Gland: The SB125 / SB150 series product has 2 cable gland entries. Only cable glands approved for Ex ‘d’ applications can be used, which must be suitable for the type of cable being used and also meet the requirements of the Ex ‘d’ flameproof installation standard EN 60079-14.

The gland accessories below offer a wide selection to cover most Ex environments

SB150		SB125	
50200:	M20 E1EX Nickel Plated Brass Gland	50210:	M20 E1EX Stainless Steel Gland
50201:	M20 A2EX Nickel Plated Brass Gland	50211:	M20 A2EX Stainless Steel Gland
50202:	M20 E1EX-QS Nickel Plated Brass Gland	50212:	M20 E1EX-QS Stainless Steel Gland
50203:	M20 A2EX Quick Stop Nickel	50213:	M20 A2EX Quick Stop
50204:	M20 Nickel Plated Brass Stopping Plug	50214:	M20 Stainless Steel Stopping Plug

SAFETY WARNING: If the SB125 / SB150 is used at high ambient temperatures ie over 40°C then the cable entry temperature may exceed +70°C and therefore suitable heat resisting cable glands must be used, with a rated service temperature of at least 95°C.

If a high IP (Ingress Protection) rating is required, a suitable sealing washer must be fitted under the cable gland. When only one cable entry is used, the other one must be closed with an Ex ‘d’ flameproof blanking plug, which must be suitably approved for the installation requirements.



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SB125-1 / SB150-1 Series - (Explosion Proof Sounders/Beacons)

AUDIBLE & VISUAL SIGNALLING DEVICES


































APPROVALS AND
CONFORMITIES






























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TONE SELECTION TABLE

ITEM	DESCRIPTION				Max dB	SW1, SW2, SW3, SW4
Tone	Frequency	Tone Description	Tone Application	Waveform	(DB)@1M ‘+/- 3dB’	Bit 1123456
01	300 Hz	Continuous			112	000000
02	340 Hz	Continuous			112	100000
03	440 Hz	Continuous			112	010000
04	554 Hz	Continuous			113	110000
05	660 Hz	Continuous	All-clear-, Sweden		111	001000
06	800 Hz	Continuous			113	101000
07	1000 Hz	Continuous	PFEER Toxic Gas		117	011000
08	1200 Hz	Continuous			114	111000
09	2000 Hz	Continuous			113	000100
10	2400 Hz	Continuous			111	100100
11	2850 Hz	Continuous			112	010100
12	420 Hz @ 0.625 sec	Intermittent	Australian, AS2220		107	110100
13	544 Hz @ 0.875 sec	Intermittent			112	001100
14	660 Hz @ 150 mins on, 150 mins off	Intermittent	Swedish Fire Alarm		108	101100
15	660 Hz @ 1.8 sec on, 1.8 sec off	Intermittent	Swedish Fire Alarm		112	011100
16	745 Hz @ 500 mins on, 500 mins off	Intermittent			110	111100
17	800 Hz @ 250 mins on, 250 mins off	Intermittent			110	000010
18	800 Hz @ 250 mins on, 1 sec off	Intermittent			108	100010
19	1000 Hz @ 250 mins on, 250 mins off	Intermittent			113	010010
20	1000 Hz @ 500 mins on, 500 mins off	Intermittent	Back-up Alarm (LF)		113	110010
21	1000 Hz @ 250 mins on, 1 sec off	Intermittent			113	001010
22	1000 Hz @ 1 sec on, 1 sec off	Intermittent	PFEER Gen, Alarm		113	101010
23	2400 Hz @ 250 mins on, 250 mins off	Intermittent			109	011010
24	2400 Hz @ 500 mins on, 500 mins off	Intermittent			108	111010
25	2850 Hz @ 1 sec on, 1 sec off	Intermittent	Back-up Alarm (HF)		109	000110
26	2850 Hz @ 150 mins on, 100 mins off	Intermittent	Pelican Crossing		109	100110
27	970 Hz @ 0.5 sec on/ 0.5 sec off, 1.5 sec off	3 Pulses			113	010110
28	2850 Hz @ 0.5 sec on/ 0.5 sec off, 1.5 sec off	3 Pulses			109	110110
29	700 Hz @ 6 sec on/ 12 sec off	Intermittent	Pre-vital mess, Sweden		113	001110
30	700 Hz @ 2 sec on/ 2 sec off	Intermittent	Air-raid, Sweden		113	101110
31	700 Hz @ 125 ms on/ 125 ms off	Intermittent	Local warning, Sweden		113	011110
32	700 Hz @ 0.7 sec on/ 0.3 sec off	Intermittent	Industrial alarm, Germany		113	111110
33	554 Hz/440 Hz @ 500ms	Alternating	Swedish Fire Alarm		109	000001

ITEM	DESCRIPTION				Max dB	SW1, SW2, SW3, SW4
Tone	Frequency	Tone Description	Tone Application	Waveform	(DB)@1M ‘+/- 3dB’	Bit 1123456
34	554 Hz/440 Hz @ 100ms/400ms	Alternating	AFNOR, NFS 32-001		109	100001
35	554 Hz/440 Hz @ 1 sec	Alternating	Turn-out, Sweden		108	010001
36	800 Hz/1000 Hz @ 125 mins	Alternating	Increased Urgency		112	110001
37	2400 Hz/2900 Hz @ 125 mins	Alternating	Security Deterrent		108	001001
38	800 Hz/1000 Hz @ 250 mins	Alternating	Fire Alarms		112	101001
39	1000 Hz/2000 Hz @ 580 mins	Alternating			112	011001
40	1000 Hz/2000 Hz @ 500 mins	Alternating			112	111001
41	2400 Hz--2900 Hz @ 250 mins	Alternating	Security Alarms		108	000101
42	500 Hz--1000 Hz @ 6 Hz	Fast Whoop			111	100101
43	500 Hz--1200 Hz @ 0.3 Hz	Sweeping			110	010101
44	660 Hz--1200 Hz @ 1 Hz	Sweeping			109	110101
45	800 Hz--1000 Hz @ 1 Hz	Med Sweeping (LF)			109	001101
46	800 Hz--1000 Hz @ 7 Hz	Fast Sweeping (LF)			109	101101
47	2400 Hz--2900 Hz @ 1 Hz	Sweeping			108	011101
48	2400 Hz--2900 Hz @ 7 Hz	Fast Sweeping			108	111101
49	800 Hz--1000 Hz @ 50 Hz	Low Freq Buzz	Buzz		108	000011
50	2400 Hz--2900 Hz @ 50 Hz	High Freq Buzz	Buzz		108	100011
51	500 Hz--1200 Hz @ 2.5 sec ↑ 0.5 sec	Slow Whoop			110	010011
52	500 Hz--1200 Hz @ 4.25 sec ↑ 0.25 sec	Slow Whoop	Evacuation, Netherlands, Australian		110	110011
53	1200 Hz--500 Hz @ 1 Hz	Reverse Sweeping	Prepare to Abandon Platform		110	001011
54	1400 Hz--1600 Hz @ 1 sec ↑ 0.5 sec	Sweeping	NFC 48-256		110	101011
55	2850 Hz	Fast Shake	Bell		106	011011
56	800 Hz/660 Hz	Tow tone chime	Int’l Evacuation Alarm		110	111011
57	800 Hz/1000 Hz	ISO 8201 Evacuation	Int’l Evacuation Alarm		110	000111
58	250 Hz/1200 Hz	Motor Siren-slow rise			112	100111
59	250 Hz/800 Hz	Motor Siren-slow rise			113	010111
60	250 Hz/2400 Hz	Motor Siren-slow rise	Industrial alarm, Germany		108	110111
61	Not Available	20 or 10 sec				001111
62	Not Available	20 or 15 sec				101111
63	Not Available	20 or 25 sec				011111
64	Not Available	20 or 30 sec				111111