

# Banshee Excel™ Audible Warning Device

The Banshee Excel™ Sounders are designed to meet the highest standards of performance and reliability.

Manufactured in flame retardant ABS, and available in a range of colours the Banshee Excel™ is ideal for all signalling applications and environments.

As with all Hosiden Besson Banshee™ sounders the Excel is easily installed with a push and twist bayonet fixing.

The Banshee Excel™ will blend in effortlessly with it's surroundings.

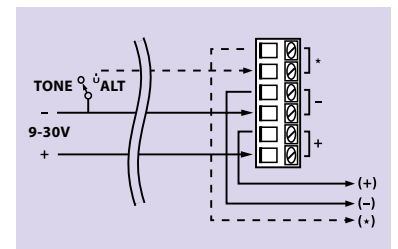


Deep base with IP66 mounting accessory



Shallow base

## Connection diagram



## Switch bank



Sound selection 1 to 5, output level 7 & 8, 6 not used

- Approved to EN54 - 3

- 0786-CPD-21061 and VdS

- Ultra low current consumption

- 32 user selectable tones

- Choice of 3 volume levels

- Rated IP66 or IP45

- Installation via side and rear cable entry

- Easy push and twist lockable bayonet mounting

- Operating temperature range from -25°C to +70°C

- Simple in and out wiring blocks

- Full range of accessories available



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# Banshee Excel™

## Audible Warning Device

### product data sheet



### Specification

<b>Termination:</b>	Screw terminals for 0.28mm <sup>2</sup> to 2.5mm <sup>2</sup> wire conductor
<b>EN54-3 Voltage Range:</b>	24VDC (20VDC to 28VDC)
<b>Operating Voltage Range:</b>	9VDC to 30VDC* (switch 6 not used)
<b>Current Consumption:</b>	See Sound output table
<b>Synchronisation:</b>	Synchronised start
<b>Operating Temperature:</b>	-25°C to +70°C
<b>Case Material:</b>	ABS
<b>Environment Category:</b>	Type A – Shallow base IP45 Type B – Deep base IP66
<b>Second Tone:</b>	Connect *terminal 2-ve

Specifications shown with an \* have not been verified to be EN54-3 compliant.

### Installation

#### All installation to be carried out by a competent person

##### IP66 Deep Base Moulding (weatherproof)

- To maintain IP rating when using a Deep Base, use wall mounting bracket Part Number: MM08728. Do not drill fixing holes in deep base. Use suitably rated 20mm cable glands to fit cables or conduit via side knock-outs. Fit 'O'-Ring seal between lens and base.

##### Non-IP66 Deep Base

- Knock out the conduit/cable gland holes in side of deep base.
- Fit conduit or 20mm cable glands then screw the base to the mounting surface or BESA box.

#### Shallow Base Moulding

- Drill mounting holes in the bottom of base for screw fixings.
- Route cable through rear hole or side knock-outs.
- Screw the base to the mounting surface or BESA box.

#### All fixings

- Connect unit as shown in connection diagram. Note: If independent supplies are required for the sounder and the beacon elements, remove LK1 and LK2.
- Place the Excel onto the base and turn clockwise to retain.
- To remove the Excel turn unit counter-clockwise.
- Where applicable, fit the security screw through the hole in the side of the lens assembly.

### Sound Output Table

No.	Sound Frequencies and Patterns	2nd Tone	code 12345	Description	EN54-3 28Vdc	Typ SPL@1m on axis		Typ Current mA	
						12V	24V	12V	24V
					see notes				
1	800Hz to 950Hz swept at 120Hz	4	00000	Banshee Buzz LF	-	91	99	4	11
2	800Hz to 950Hz swept at 9Hz	4	10000	Banshee Fast Sweep LF	✓	91	100	4	11
3	800Hz to 950Hz swept at 3Hz	4	01000	Banshee Slow Sweep LF	-	92	100	4	11
4	Continuous at 900Hz	4	11000	Banshee Continuous LF	-	92	100	5	14
5	830Hz to 970Hz swept at 9Hz	4	00100	Banshee Fast Sweep LF (New)	-	92	100	5	11
6	800Hz to 970Hz swept at 1Hz	7	10100	Medium Sweep LF	✓	93	101	5	11
7	Continuous at 950Hz	7	01100	Continuous LF	-	90	95	5	10
8	Intermittent at 950Hz 1sec on, 1sec off	4	11100	Backup Alarm LF	-	90	95	5	10
9	Alternating 800Hz/1000Hz, 0.5sec each sound	4	00010	Alternate LF	-	87	96	4	9
10	800Hz/1000Hz swept at 0.5sec	4	10010	Medium Sweep LF	-	92	100	4	11
11	Alternating tones 800/950Hz at 3Hz	4	01010	Alternate LF	-	89	96	4	10
12	2400Hz to 2900Hz at 120Hz	15	11010	Banshee buzz HF	-	102	109	13	30
13	2400Hz to 2900Hz at 9Hz	15	00110	Banshee Fast Sweep HF	-	102	109	13	29
14	2400Hz to 2900Hz at 3Hz	15	10110	Banshee Slow Sweep HF	-	103	110	14	30
15	Continuous 2900Hz	15	01110	Banshee Continuous HF	-	98	104	8	17
16	2450Hz to 3100Hz swept at 9Hz	15	11110	Banshee Fast Sweep HF (New)	-	102	109	12	27
17	Intermittent at 2900Hz 1sec on, 1sec off	15	00001	Backup Alarm HF	-	99	105	8	17
18	Alternating tones 2400/2900Hz at 3Hz	15	10001	Alternate HF	-	99	105	10	23
19	500Hz rising to 1200Hz over 3.5, silence 0.5sec	4	01001	Slow Whoop	✓	92	100	5	11
20	1200Hz falling to 500Hz over 1sec, silence 10mS	4	11001	Din Tone (DK)	✓	90	98	4	9
21	554Hz for 100ms and 440Hz for 400ms	4	00101	French Fire Sounder	✓	86	93	3	6
22	420Hz repeating 0.625sec on, 0.625sec off	4	10101	Australian Alert Signal	-	81	88	3	5
23	500Hz to 1200Hz sweeping 3.75sec on, 0.25sec off	4	01101	Australian Evacuation Signal	-	92	100	5	10
24	950Hz for 0.5sec on 0.5s off, for 3 phases, silence for 1.5sec	4	11101	US Temporal Tone LF	-	90	95	4	8
25	2900Hz for 0.5sec on 0.5sec off, for 3 phases, silence for 1.5sec	15	00011	US Temporal Tone HF	-	99	105	6	13
26	Intermittent 660Hz 150mS on, 150mS off	26	10011	Swedish Tone (Fire)	-	76	83	3	5
27	Continuous 660Hz	27	01011	Swedish Tone (All Clear)	-	77	83	4	8
28	Intermittent 970Hz 500mS on, 500mS off	28	11011	ISO8201 LF	-	86	92	4	7
29	Intermittent 2900Hz 500mS on, 500mS off	29	00111	ISO8201 HF	-	99	105	7	14
30	Yodel 800Hz/1000Hz, 0.25sec	31	10111	BT Banshee (FP1063.1)	-	87	96	4	9
31	Continuous 1000Hz	31	01111	BT Banshee (FP1063.1)	-	84	89	4	9
32	Bell Tone	32	11111	Bell Tone	-	88	94	5	10

- Volume control providing up to 20dB attenuation. All frequencies are nominal.
- Column EN54-3 shows tones approved under the Construction Product Directive.
- Polar diagram information is available in the technical manual, available on request.



Every care has been taken in the preparation of this product release but no liability whatsoever can be accepted for the use of the information contained therein. Hosiden Besson Ltd reserve the right to change or amend any design features in line with our policy of continuing development and improvement.