

# Banshee Excel™ product sheet

- EN54 - 3 pending approval CPD, LPC & VdS
- Ultra low current consumption
- 32 user selectable tones
- Choice of 3 volume levels
- Rated IP66 or IP45
- Installation via side & rear cable entry
- Easy push & twist lockable bayonet mounting
- Temperature range from -40 to +70°C
- Simple in & out wiring blocks offering continuous override and dual signalling
- Full range of accessories available

The new 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 its surroundings.



Colours available



 Hosiden Besson Ltd.

11 St. Joseph's Trading Estate, St. Joseph's Close, Brighton & Hove, East Sussex BN3 7EZ, England.  
Tel: +44 (0)1273 860000 Fax: +44 (0)1273 777501 Email: info@hbl.co.uk Web: www.hbl.co.uk

# Banshee Excel™

## Specification

Termination:	Screw terminals for 0.28mm <sup>2</sup> to 2.5mm <sup>2</sup> wire conductor
EN54-3 Voltage Range:	24VDC (20VDC to 28VDC)
Operating Voltage Range:	9VDC to 30VDC* (switch 6 not used)
Current Consumption:	See Sound output table
Synchronisation:	Synchronised start
Operating Temperature:	-40°C to +70°C
Case Material:	ABS
Environment Category:	Type A - Shallow Base IP45 Type B - Deep Base IP66
Second Tone:	Connect *terminal 2-ve

Units meet minimum requirements of IP21C Shallow Base and IP33C Deep Base in accordance with EN54-3

## 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.

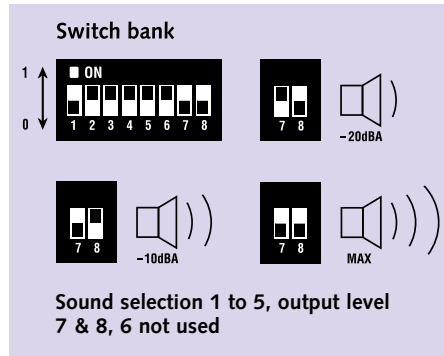
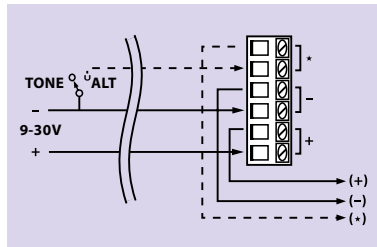
### Shallow Base Moulding.

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

## Connection diagram



## Sound Output Table

No.	Sound Frequencies and Patterns	2nd Tone	code 12345	Description	EN54-3 28Vdc see notes	Typ SPL@1m on axis		Typ Current mA	
						12V	24V	12V	24V
1	800Hz to 950Hz swept at 120Hz	4	00000	Banshee Buzz LF	-	94	101	6	12
2	800Hz to 950Hz swept at 9Hz	4	10000	Banshee Fast Sweep LF	✓	94	101	6	12
3	800Hz to 950Hz swept at 3Hz	4	01000	Banshee Slow Sweep LF	-	94	101	6	12
4	Continuous at 900Hz	4	11000	Banshee Continuous LF	-	94	101	6	12
5	830Hz to 970Hz swept at 9Hz	4	00100	Banshee Fast Sweep LF (New)	-	95	101	6	12
6	800Hz to 970Hz swept at 1Hz	7	10100	Medium Sweep LF	✓	96	101	6	12
7	Continuous at 970Hz	7	01100	Continuous LF	-	96	102	6	13
8	Intermittant at 950Hz 1sec on, 1sec off	4	11100	Backup Alarm LF	-	96	102	7	14
9	Alternating 800Hz/1000Hz, 0.5sec each sound	4	00010	Alternate LF	-	94	100	6	13
10	800Hz/1000Hz swept at 0.5sec	4	10010	Medium Sweep LF	-	95	101	6	12
11	Alternating tones 800/950Hz at 3Hz	4	01010	Alternate LF	-	96	101	6	12
12	2400Hz to 2900Hz at 120Hz	15	11010	Banshee buzz HF	-	102	110	16	35
13	2400Hz to 2900Hz at 9Hz	15	00110	Banshee Fast Sweep HF	-	103	110	17	35
14	2400Hz to 2900Hz at 3Hz	15	10110	Banshee Slow Sweep HF	-	103	110	17	35
15	Continuous 2900Hz	15	01110	Banshee Continuous HF	-	103	110	19	39
16	2450Hz to 3100Hz swept at 9Hz	15	11110	Banshee Fast Sweep HF (New)	-	103	110	18	36
17	Intermittant at 2900Hz 1sec on, 1sec off	15	00001	Backup Alarm HF	-	104	110	18	36
18	Alternating tones 2400/2900Hz at 3Hz	15	10001	Alternate HF	-	104	110	16	36
19	500Hz rising to 1200Hz over 3.5, silence 0.5sec, repeat	4	01001	Slow Whoop	✓	95	101	6	12
20	1200Hz falling to 500Hz over 1sec, silence 10mS, repeat	4	11001	Din Tone (DK)	✓	93	100	5	10
21	554Hz for 100ms and 440Hz for 400mS	4	00101	French Fire Sounder	✓	90	96	4	7
22	420Hz repeating 0.625sec on, 0.625sec off	4	10101	Australian Alert Signal	-	89	95	3	6
23	500Hz to 1200Hz sweeping 3.75sec on, 0.25sec off	4	01101	Australian Evacuation Signal	-	95	103	6	12
24	950Hz for 0.5sec on 0.5sec off, for 3 phases, silence for 1.5sec	4	11101	US Temporal Tone LF	-	95	101	5	10
25	2900Hz for 0.5sec on 0.5sec off, for 3 phases, silence for 1.5sec	15	00011	US Temporal Tone HF	-	104	110	13	26
26	Intermittant 660Hz 150mS on, 150mS off	26	10011	Swedish Tone (Fire)	-	90	96	3	6
27	Continuous 660Hz	27	01011	Swedish Tone (All Clear)	-	91	97	5	9
28	Intermittant 970Hz 500mS on, 500mS off	28	11011	ISO8201 LF	-	93	99	5	10
29	Intermittant 2900Hz 500mS on, 500mS off	29	00111	ISO8201 HF	-	103	110	13	27
30	Yodel 800Hz/1000Hz, 0.25sec	31	10111	BT Banshee (FP1063.1)	-	93	100	6	12
31	Continuous 1000Hz	31	01111	BT Banshee (FP1063.1)	-	90	96	6	14
32	Bell Tone	32	11111	Bell Tone	-	96	101	12	25

- Volume control providing up to 20dB attenuation. All Frequency 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.
- Specifications shown with an \* have not been verified to be EN54-3 compliant.

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