

# 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.

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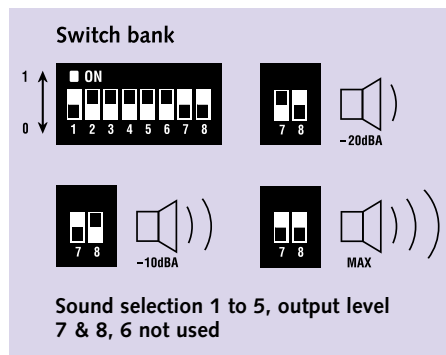
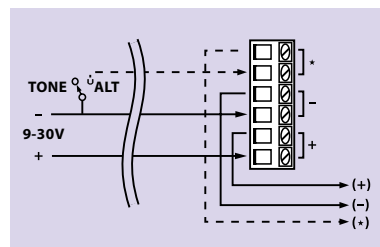
# Banshee Excel™

## 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<br>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

## Connection diagram



Deep base with IP66 mounting accessory

Shallow base

## 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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