

The Banshee Excel™ CH sounder represents the most modern, acoustically advanced and by far the most versatile conventional electronic sounder available on the market today.

The sounder comes with 32 user-selectable tones incorporating low frequencies, high frequencies, European, American and Australian norms and all industry-standard frequency patterns.

Tested and approved to EN 54 Part 3, the Banshee Excel™ CH sounder boasts leading acoustics, aesthetically pleasing design and low power consumption. The unit is designed for ease of installation and is complemented by a wide selection of accessories to suit all applications.

Banshee Excel™ CH is manufactured in flame retardant ABS and is available in three colours, making it suitable for a wide range of alarm and signalling applications. The sounder is fitted with a professional capsule driven horn and uses the push and twist bayonet fitting Banshee™ base compatible with other products in the Banshee Excel™ range.



## FEATURES

- 32 user-selectable tones - industry standard compatible
- Very low current consumption
- EN 54-3 tested and fully approved in accordance with CPR
- LPCB approved
- Uses same bases as Banshee™ - simple push and twist bayonet mounting with locking screw
- Available in three colours - red, white or grey
- Easy to install with side and rear cable entry
- Robust 'two in two out' 2.5 mm<sup>2</sup> terminals
- Three selectable volume levels
- Rated to IP 66 or IP 45
- Extensive family of accessories for a wide range of applications
- Recyclable

## SPECIFICATION

|                                   |                                                 |
|-----------------------------------|-------------------------------------------------|
| Operating Voltage (V dc):         | 9-30                                            |
| Operating Voltage EN 54-3 (V dc): | 24 (20 -28)                                     |
| Tone Current Consumption (mA):    | See Sound Output Table#                         |
| Sound Output (dBA Typ @1 m):      | See Sound Output Table#                         |
| Tones Available:                  | See Sound Output Table#                         |
| Body Colours:                     | Red, White or Grey                              |
| Operating Temperature:            | -25°C to +70°C                                  |
| Volume Control:                   | High, Medium (-10 d B(A))<br>Low (-20 d B(A))   |
| Environment Category / IP Rating: | Type A/IP 45 Std Base<br>Type B/IP 66 Deep Base |

The unit meets minimum requirements of IP 21C Shallow Base and IP 33C Deep Base in accordance with EN 54-3

## APPROVALS

CE  
2831-CFR-F1832



## PART NUMBERS - SOUNDER

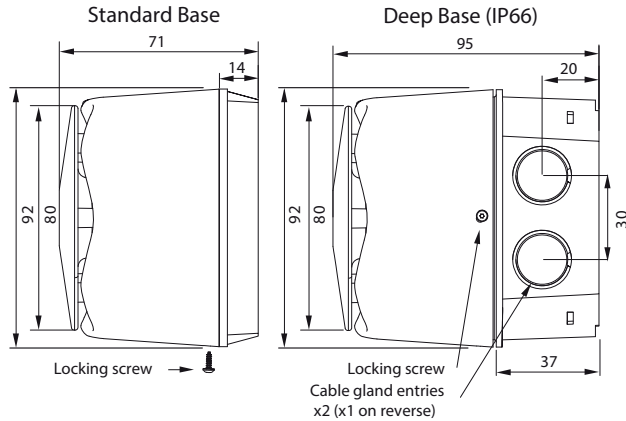
- 902CHA6A0: Banshee Excel CH - Red
- 902CHA4A0: Banshee Excel CH - White
- 902CHA5A0: Banshee Excel CH - Grey
- 903CHA6A0: Banshee Excel CH - Red, Deep Base IP 66
- 903CHA4A0: Banshee Excel CH - White, Deep Base IP 66
- 903CHA5A0: Banshee Excel CH - Grey, Deep Base IP 66

## PART NUMBERS - SPARES & ACCESSORIES

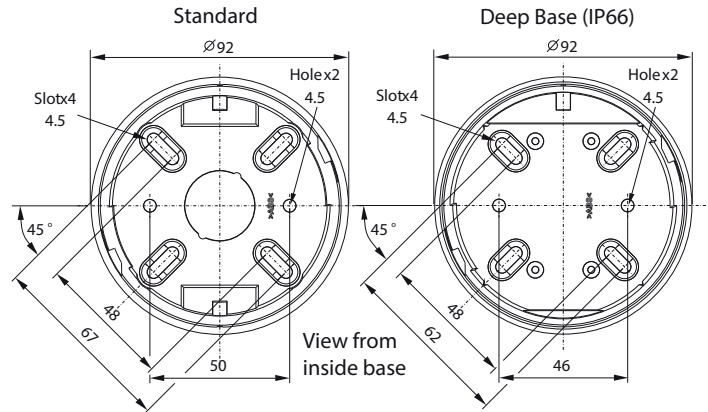
- 8502700: Mains Pack - 110 V ac/230 V ac input 24 V dc output
- 8502900: Flush Mounting Ring - for Banshee Excel, Excel Lite
- 8503100: External Fixing Clip for Deep Base
- (avoids drilling through base thus retaining IP 66 rating)
- BA87331/P: Deep Base - White, complete with 'O' Ring
- BA87341/P: Deep Base - Red, complete with 'O' Ring
- BA87351/P: Deep Base - Grey, complete with 'O' Ring

## INSTALLATION

## BANSHEE EXCEL CH SOUNDER



## BANSHEE EXCEL COMMON BASE



Sound Output Table

| No. | Sound Frequencies and Patterns                              | code<br>12345 | Description                  | EN54-3<br>28Vdc | Typ SPL@1m<br>on axis |     | Typ Current<br>mA |     |
|-----|-------------------------------------------------------------|---------------|------------------------------|-----------------|-----------------------|-----|-------------------|-----|
|     |                                                             |               |                              |                 | 12V                   | 24V | 12V               | 24V |
|     |                                                             |               |                              | see notes       | 94                    | 100 | 6                 | 12  |
| 1   | 800Hz to 950Hz swept at 120Hz                               | 00000         | Banshee Buzz LF              | -               | 94                    | 100 | 6                 | 12  |
| 2   | 800Hz to 950Hz swept at 9Hz                                 | 10000         | Banshee Fast Sweep LF        | 3               | 94                    | 100 | 6                 | 12  |
| 3   | 800Hz to 950Hz swept at 3Hz                                 | 01000         | Banshee Slow Sweep LF        | -               | 94                    | 100 | 6                 | 12  |
| 4   | Continuous at 900Hz                                         | 11000         | Banshee Continuous LF        | -               | 94                    | 100 | 6                 | 12  |
| 5   | 830Hz to 970Hz swept at 9Hz                                 | 00100         | Banshee Fast Sweep LF (New)  | -               | 93                    | 100 | 6                 | 12  |
| 6   | 800Hz to 970Hz swept at 1Hz                                 | 10100         | Medium Sweep LF              | 3               | 94                    | 100 | 6                 | 12  |
| 7   | Continuous at 950Hz                                         | 01100         | Continuous LF                | -               | 94                    | 99  | 6                 | 13  |
| 8   | Intermittent at 950Hz 1s on, 1s off                         | 11100         | Backup Alarm LF              | -               | 93                    | 99  | 7                 | 14  |
| 9   | Alternating 800Hz/1000Hz at 1Hz                             | 00010         | Alternate LF                 | -               | 94                    | 100 | 6                 | 13  |
| 10  | 800Hz/1000Hz swept at 0.5s                                  | 10010         | Medium Sweep LF              | -               | 94                    | 100 | 6                 | 12  |
| 11  | Alternating tones 800/950Hz at 3Hz                          | 01010         | Alternate LF                 | -               | 94                    | 101 | 6                 | 12  |
| 12  | 2400Hz to 2900Hz at 120Hz                                   | 11010         | Banshee buzz HF              | -               | 102                   | 109 | 16                | 35  |
| 13  | 2400Hz to 2900Hz at 9Hz                                     | 00110         | Banshee Fast Sweep HF        | -               | 103                   | 110 | 17                | 35  |
| 14  | 2400Hz to 2900Hz at 3Hz                                     | 10110         | Banshee Slow Sweep HF        | -               | 103                   | 110 | 17                | 35  |
| 15  | Continuous 2900Hz                                           | 01110         | Banshee Continuous HF        | -               | 103                   | 109 | 19                | 39  |
| 16  | 2450Hz to 3100Hz swept at 9Hz                               | 11110         | Banshee Fast Sweep HF (New)  | -               | 103                   | 109 | 18                | 36  |
| 17  | Intermittent at 2900Hz 1sec on, 1sec off                    | 00001         | Backup Alarm HF              | -               | 103                   | 109 | 18                | 36  |
| 18  | Alternating tones 2400/2900Hz at 3Hz                        | 10001         | Alternate HF                 | -               | 104                   | 110 | 16                | 36  |
| 19  | 500Hz rising to 1200Hz over 3.5 sec, silence 0.5sec,        | 01001         | Slow Whoop                   | 3               | 95                    | 101 | 6                 | 12  |
| 20  | 1200Hz falling to 500Hz over 1sec, silence 10mS             | 11001         | Din Tone (DK)                | 3               | 93                    | 100 | 5                 | 10  |
| 21  | 554Hz for 100ms and 440Hz for 400mS                         | 00101         | French Fire Sounder          | 3               | 90                    | 96  | 4                 | 7   |
| 22  | 420Hz repeating 0.625 sec on, 0.625 sec off                 | 10101         | Australian Alert Signal      | -               | 89                    | 94  | 3                 | 6   |
| 23  | 500Hz to 1200Hz sweeping 3.75 secs on, 0.25 secs off        | 01101         | Australian Evacuation Signal | -               | 95                    | 101 | 6                 | 12  |
| 24  | 950Hz for 0.5s on 0.5s off, for 3 phases, silence for 1.5s  | 11101         | US Temporal Tone LF          | -               | 93                    | 99  | 5                 | 10  |
| 25  | 2900Hz for 0.5s on 0.5s off, for 3 phases, silence for 1.5s | 00011         | US Temporal Tone HF          | -               | 103                   | 109 | 13                | 26  |
| 26  | Intermittent 660Hz 150mS on, 150mS off                      | 10011         | Swedish Tone (Fire)          | -               | 90                    | 96  | 3                 | 6   |
| 27  | Continuous 660Hz                                            | 01011         | Swedish Tone (All Clear)     | -               | 91                    | 97  | 5                 | 9   |
| 28  | Intermittent 970Hz 500mS on, 500mS off                      | 11011         | ISO8201 LF                   | -               | 90                    | 96  | 5                 | 10  |
| 29  | Intermittent 2900Hz 500mS on, 500mS off                     | 00111         | ISO8201 HF                   | -               | 103                   | 109 | 13                | 27  |
| 30  | Yodel 800Hz/1000Hz, 0.25 sec                                | 10111         | BT Banshee (FP1063.1)        | -               | 94                    | 100 | 6                 | 12  |
| 31  | Continuous 1000Hz                                           | 01111         | BT Banshee (FP1063.1)        | -               | 88                    | 94  | 6                 | 14  |
| 32  | Bell Tone                                                   | 11111         | Bell Tone                    | -               | 94                    | 99  | 12                | 25  |

- 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.

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We reserve the right to change or amend any design or specification in line with our policy of continuing development and improvement.

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