

## TECHNICAL DATASHEET

# BANSHEE EXCEL LITE™ CHX/CHL SOUNDER BEACONS

The Banshee Excel Lite™ combines the aesthetics and performance of the Excel Sounder with either a very bright and efficient Xenon Beacon (CHX model) or a low-current LED Beacon (CHL model).

The sounder is fitted with a professional capsule driven horn and comes with 32 user-selectable tones incorporating low frequencies, high frequencies, European, American and Australian norms and all industry-standard frequency patterns.

Manufactured in flame retardant polymer, the units are available in a choice of base colours and up to 5 different lens colours, making it suitable for a range of fire and security dual notification applications as well as DDA-compliant installations. All models use the push and twist bayonet fitting BansheeMT base.

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



## FEATURES

- Available with either Xenon or LED Beacon with a red or white body
- Choice of lens colours with CPR (CHX: Red, Clear, Amber, Blue, Green / CHL: Red, Clear)
- Sounder has 32 user-selectable tones - industry standard compatible
- Very low current consumption
- EN 54-3 tested and fully approved in accordance with CPR
- LPCB approved
- Easy to install with side and rear cable entry
- Robust 'two in two out' 2.5 mm<sup>2</sup> terminals
- Choice of three volume levels
- Rated to IP 66 or IP 45
- Uses same bases as BansheeMT - simple push and twist bayonet
- Mounting with locking screw
- 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#                         |
| Flash Current Consumption (mA): <sup>‡</sup><br>- @24 V dc<br>- @12 V dc | 40 (CHX), 16 (CHL)<br>90 (CHX), 12 (CHL)        |
| Light Output Rating (Cd):                                                | TBC                                             |
| Flash Rate (Per Second):                                                 | 1                                               |
| Body Colours:                                                            | Red or White                                    |
| Temperature Range (Deg C):                                               | -15 to +40 (CHX)<br>-20 to +70 (CHL)            |
| 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 A/IP 66 Deep Base |

<sup>‡</sup>Flash current consumption is additional to sounder tone current  
All units meet minimum requirements of IP 21C Shallow Base and IP 33C Deep Base in accordance with EN 54-3

## APPROVALS

CHL Series

2831-CFR-F1835



CHX Series

2831-CFR-F1834



## CHOICE OF LENS COLOUR:

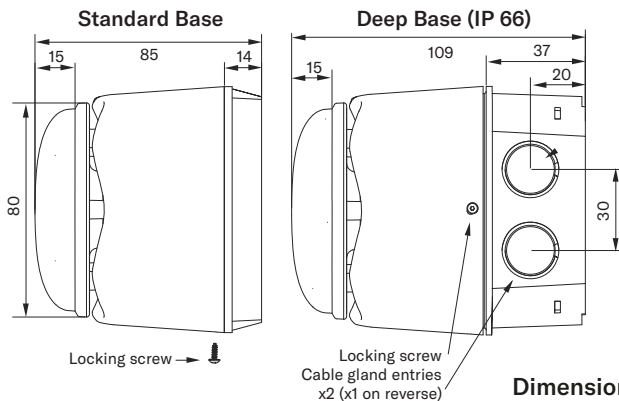


## TECHNICAL DATASHEET

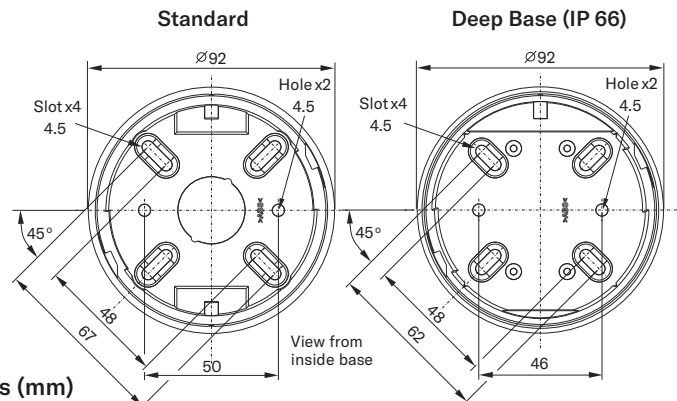
# BANSHEE EXCEL LITE™ CHX/CHL SOUNDER BEACONS

## INSTALLATION

### BANSHEE EXCEL LITE™ CHX/CHL SOUNDER BEACON



### BANSHEE EXCEL™ COMMON BASE



## # Sound Output Table & Tone Specification

| No. | DIL SW<br>1 2 3 4 5 | Description                   | Frequency and timing                                                            | 2nd<br>Ton | (12V)<br>dBA | (24V)<br>dBA |
|-----|---------------------|-------------------------------|---------------------------------------------------------------------------------|------------|--------------|--------------|
| 1   | 0 0 0 0             | Banshee Buzz LF               | 800Hz to 950Hz swept at 120Hz                                                   | 4          | 94           | 6 100 12     |
| 2   | 1 0 0 0             | <b>Banshee Fast Sweep LF*</b> | <b>800Hz to 950Hz swept at 9Hz</b>                                              | 4          | 94           | 6 100 12     |
| 3   | 0 1 0 0             | Banshee Slow Sweep LF         | 800Hz to 950Hz swept at 3Hz                                                     | 4          | 94           | 6 100 12     |
| 4   | 1 1 0 0             | Banshee Continuous LF         | Continuous at 900Hz                                                             | 4          | 94           | 6 100 12     |
| 5   | 0 0 1 0             | Banshee Fast Sweep LF (New)   | 830Hz to 970Hz swept at 9Hz                                                     | 4          | 93           | 6 100 12     |
| 6   | 1 0 1 0             | <b>Medium Sweep LF*</b>       | <b>800Hz to 970Hz swept at 1Hz</b>                                              | 7          | 94           | 6 100 12     |
| 7   | 0 1 1 0             | Continuous LF                 | Continuous at 950Hz                                                             | 7          | 94           | 6 99 13      |
| 8   | 1 1 1 0             | Back Up Alarm LF              | Intermittent at 950Hz 1 sec on, 1 sec off                                       | 4          | 93           | 6 99 14      |
| 9   | 0 0 0 1             | Alternate LF                  | Alternating 800Hz/1000Hz at 1Hz                                                 | 4          | 94           | 6 100 13     |
| 10  | 1 0 0 1             | Medium Sweep LF               | 800Hz to 1000Hz swept at 0.5 secs                                               | 4          | 94           | 6 100 12     |
| 11  | 0 1 0 1             | Alternate LF                  | Alternating Tones 800/950 at 3Hz                                                | 4          | 94           | 6 101 12     |
| 12  | 1 1 0 1             | Banshee Buzz HF               | 2400Hz to 2900Hz at 120Hz                                                       | 15         | 102          | 16 109 35    |
| 13  | 0 0 1 1             | Banshee Fast Sweep HF         | 2400Hz to 2900Hz at 9Hz                                                         | 15         | 103          | 17 110 35    |
| 14  | 1 0 1 1             | Banshee Slow Sweep HF         | 2400Hz to 2900Hz at 3Hz                                                         | 15         | 103          | 17 110 35    |
| 15  | 0 1 1 1             | Banshee Continuous HF         | Continuous 2900Hz*                                                              | 15         | 103          | 19 109 39    |
| 16  | 1 1 1 1             | Banshee Fast Sweep HF (New)   | 2450Hz to 3100Hz swept at 9Hz                                                   | 15         | 103          | 18 109 36    |
| 17  | 0 0 0 1             | Back Up Alarm HF              | Intermittent at 2900Hz 1 sec on, 1 sec off*                                     | 15         | 103          | 18 109 37    |
| 18  | 1 0 0 1             | Alternate HF                  | Alternating Tones 2400/2900 at 3Hz                                              | 15         | 104          | 17 110 36    |
| 19  | 0 1 0 1             | <b>Slow Whoop*</b>            | <b>500Hz rising to 1200Hz over 3.5 secs, silence 0.5 sec</b>                    | 4          | 95           | 6 101 12     |
| 20  | 1 1 0 1             | <b>Din Tone (DK)*</b>         | <b>1200Hz falling to 500Hz over 1 sec, silence 10mS, repeat</b>                 | 4          | 93           | 5 100 10     |
| 21  | 0 0 1 1             | <b>French Fire Sound*</b>     | <b>554Hz for 100mS and 440Hz for 400mS</b>                                      | 4          | 90           | 4 96 7       |
| 22  | 1 0 1 1             | Australian Alert Signal       | 420Hz repeating 0.625 sec on, 0.625 sec off                                     | 4          | 89           | 3 94 6       |
| 23  | 0 1 1 1             | Australian Evacuation Signal  | 500Hz to 1200Hz sweeping, 3.75 secs on, 0.25 secs off                           | 4          | 95           | 6 101 12     |
| 24  | 1 1 1 1             | US Temporal Tone LF           | 950Hz for 0.5 sec on, 0.5 sec off for 3 phases, silence for 1.5secs and repeat  | 4          | 93           | 5 99 10      |
| 25  | 0 0 0 1             | US Temporal Tone HF           | 2900Hz for 0.5 sec on, 0.5 sec off for 3 phases, silence for 1.5secs and repeat | 15         | 103          | 13 109 27    |
| 26  | 1 0 0 1             | Swedish Tone (Fire)           | Intermittent 660Hz 150mS on, 150mS off                                          | 26         | 90           | 3 96 6       |
| 27  | 0 1 0 1             | Swedish Tone (All Clear)      | Continuous 660Hz                                                                | 27         | 91           | 5 97 9       |
| 28  | 1 1 0 1             | ISO8201 LF                    | Intermittent 970Hz 500mS on, 500mS off                                          | 28         | 90           | 5 96 10      |
| 29  | 0 0 1 1             | ISO8201 HF                    | Intermittent 2900Hz 500mS on, 500mS off*                                        | 29         | 103          | 13 109 27    |
| 30  | 1 0 1 1             | BT Banshee (FPI063.1)         | Yodel 800Hz/1000Hz, 0.25sec each frequency                                      | 31         | 94           | 6 100 12     |
| 31  | 0 1 1 1             | BT Banshee (FPI063.1)         | Continuous 1000Hz                                                               | 31         | 88           | 6 94 14      |
| 32  | 1 1 1 1             | Bell Tone                     | Bell Tone                                                                       | 32         | 94           | 12 99 25     |

Notes: \*Tones highlighted in bold are approved under the Construction Product Directive; Sound output (dBA) and current (mA) values are typical.

## PART NUMBERS - SPARES & ACCESSORIES

- 8502700: Mains Pack - 110 Vac/230 V ac input 24 V dc output
- 8502800: Cable Spacing Ring for Surface Wiring of sounder
- 8502900: Flush Mounting Ring - for Banshee Excel, Excel Lite
- 8503000: Combination bracket - for Sounders and Strobes
- 8503100: External Fixing Clip for Deep Base (avoids drilling 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

## PART NUMBERS - SOUNDER

(Model-Body Col/Lens Col/ Base)

- 958CHL1000: CHL-Red/Red/Std
- 958CHL1001: CHL-Red/Red/Deep
- 958CHL1100: CHL-Red/Clear/Std
- 958CHL1101: CHL-Red/Clear/Deep
- 958CHL1500: CHL-White/Red/Std
- 958CHL1501: CHL-White/Red/Deep
- 958CHL1600: CHL-White/Clear/Std
- 958CHL1601: CHL-White/Clear/Deep
- 958CHX1000: CHX-Red/Red/Std
- 958CHX1001: CHX-Red/Red/Deep
- 958CHX1100: CHX-Red/White/Std
- 958CHX1101: CHX-Red/White/Deep
- 958CHX1200: CHX-Red/Amber/Std
- 958CHX1201: CHX-Red/Amber/Deep
- 958CHX1300: CHX-Red/Blue/Std
- 958CHX1301: CHX-Red/Blue/Deep
- 958CHX1400: CHX-Red/Green/Std
- 958CHX1401: CHX-Red/Green/Deep
- 958CHX1500: CHX-White/Red/Std
- 958CHX1501: CHX-White/Red/Deep
- 958CHX1600: CHX-White/Clear/Std
- 958CHX1601: CHX-White/Clear/Deep
- 958CHX1700: CHX-White/Amber/Std
- 958CHX1701: CHX-White/Amber/Deep
- 958CHX1800: CHX-White/Blue/Std
- 958CHX1801: CHX-White/Blue/Deep
- 958CHX1900: CHX-White/Green/Std
- 958CHX1901: CHX-White/Green/Deep

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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.