Hosiden Besson Ltd.

BANSHEE EXCEL LITE™ LED
AUDIBLE WARNING DEVICE

The new Banshee LED Excel Lite™ uses the latest LED technology to create on extremely efficient LED sounder/ beacon combination, with the advantage of very low current consumption.
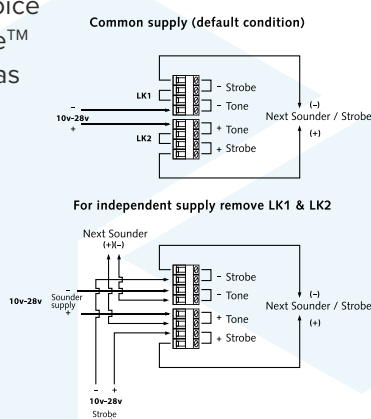
The unit is fitted with a rocking armature transducer and manufactured in a flame retardant polymer with a choice of base and lens colours. The Banshee LED Excel Lite™ utilises the same easy push and twist bayonet fixing as the Banshee Excel™ and the original MT Banshee™.

- **Approved to EN54 - 3**
- **2831-CPRF1835 by BRE Global**
- **Ultra low current consumption**
- **32 user selectable tones**
- **Choice of 3 volume levels**
- **Rated IP66 or IP21C**
- **Installation via side and rear cable entry**
- **Easy push and twist lockable bayonet mounting**
- **Temperature range from -20°C to +70°C**
- **Simple in and out wiring blocks**
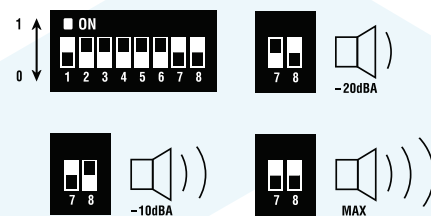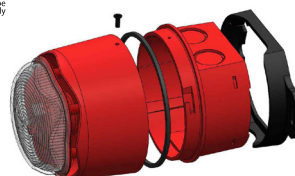- **Full range of accessories available**

Lens colours available

CONNECTION DIAGRAM

Common supply (default condition)

LK1
– Strobe
– Tone
LK2
+ Tone
+ Strobe
10v~28v
Next Sounder / Strobe (–) (+)

For independent supply remove LK1 & LK2

Next Sounder (+)(–)
10v~28v Sounder supply
– Strobe
– Tone
+ Tone
+ Strobe
Next Sounder / Strobe (–) (+)
10v~28v Strobe supply

Switch bank
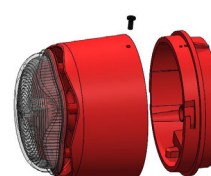
ON
1 2 3 4 5 6 7 8
1
0

7 8
−20dBA

7 8
−10dBA

7 8
MAX

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

Deep base with IP66 mounting accessory

Shallow base

THE BANSHEE EXCEL™ LED TECHNICAL SPECIFICATION

Termination:	1 x 8 way terminal block. for screw terminals for 0.28mm^2 to 2.5mm^2 wire conductor
EN54-3 Voltage Range:	24VDC (20VDC to 28VDC)
Operating Voltage Range:	9VDC to 30VDC*
Current Consumption:	See Sound output table
Tone Synchronisation:	Synchronised start
Flash Rate:	1/Sec
Flash Current Consumption:	12mA@ 12VDC Typ / 16mA @ 24VDC Typ
Operating Temperature:	-20°C to +70°C
Case Material:	Flame Retardant ABS
Environment Category:	Type A
IP Rating:*	Shallow base IP21C / Deep base IP66

Units meet minimum requirements of IP21C shallow base and IP33C Deep base in accordance with EN54-3 Specifications shown with an* have not been verified to be EN54-3 compliant.

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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 body 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 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 marked area in the side of the body assembly.

SOUND OUTPUT TABLE

No.	Sound Frequencies and Patterns	Code 12345	Description	EN54-3 28Vdc	Typ SPL@1m on axis		Typ Current mA	
				see notes	12V	24V	12V	24V
1	800Hz to 950Hz swept at 120Hz	0 0 0 0 0	Banshee Buzz LF	-	94	100	6	12
2	800Hz to 950Hz swept at 9Hz	1 0 0 0 0	Banshee Fast Sweep LF	✓	94	100	6	12
3	800Hz to 950Hz swept at 3Hz	0 1 0 0 0	Banshee Slow Sweep LF	-	94	100	6	12
4	Continuous at 900Hz	1 1 0 0 0	Banshee Continuous LF	-	94	100	6	12
5	830Hz to 970Hz swept at 9Hz	0 0 1 0 0	Banshee Fast Sweep LF (New)	-	93	100	6	12
6	800Hz to 970Hz swept at 1Hz	1 0 1 0 0	Medium Sweep LF	✓	94	100	6	12
7	Continuous at 950Hz	0 1 1 0 0	Continuous LF	-	94	99	6	13
8	Intermittent at 950Hz 1sec on, 1sec off	1 1 1 0 0	Backup Alarm LF	-	93	99	7	14
9	Alternating 800Hz/1000Hz, 0.5sec each sound	0 0 0 1 0	Alternate LF	-	94	100	6	13
10	800Hz/1000Hz swept at 0.5sec	1 0 0 1 0	Medium Sweep LF	-	94	100	6	12
11	Alternating tones 800/950Hz at 3Hz	0 1 0 1 0	Alternate LF	-	94	101	6	12
12	2400Hz to 2900Hz at 120Hz	1 1 0 1 0	Banshee buzz HF	-	102	109	16	35
13	2400Hz to 2900Hz at 9Hz	0 0 1 1 0	Banshee Fast Sweep HF	-	103	110	17	35
14	2400Hz to 2900Hz at 3Hz	1 0 1 1 0	Banshee Slow Sweep HF	-	103	110	17	35
15	Continuous 2900Hz	0 1 1 1 0	Banshee Continuous HF	-	103	109	19	39
16	2450Hz to 3100Hz swept at 9Hz	1 1 1 1 0	Banshee Fast Sweep HF (New)	-	103	109	18	36
17	Intermittent at 2900Hz 1sec on, 1sec off	0 0 0 0 1	Backup Alarm HF	-	103	109	18	36
18	Alternating tones 2400/2900Hz at 3Hz	1 0 0 0 1	Alternate HF	-	104	110	16	36
19	500Hz rising to 1200Hz over 3.5, silence 0.5sec	0 1 0 0 1	Slow Whoop	✓	95	101	6	12
20	1200Hz falling to 500Hz over 1sec, silence 10mS	1 1 0 0 1	Din Tone (DK)	✓	93	100	5	10
21	554Hz for 100ms and 440Hz for 400mS	0 0 1 0 1	French Fire Sounder	✓	90	96	4	7
22	420Hz repeating 0.625sec on, 0.625sec off	1 0 1 0 1	Australian Alert Signal	-	89	94	3	6
23	500Hz to 1200Hz sweeping 3.75sec on, 0.25sec off	0 1 1 0 1	Australian Evacuation Signal	-	95	101	6	12
24	950Hz for 0.5sec on 0.5s off, for 3 phases, silence for 1.5sec	1 1 1 0 1	US Temporal Tone LF	-	93	99	5	10
25	2900Hz for 0.5sec on 0.5sec off, for 3 phases, silence for 1.5sec	0 0 0 1 1	US Temporal Tone HF	-	103	109	13	26
26	Intermittent 660Hz 150mS on, 150mS off	1 0 0 1 1	Swedish Tone (Fire)	-	90	96	3	6
27	Continuous 660Hz	0 1 0 1 1	Swedish Tone (All Clear)	-	91	97	5	9
28	Intermittent 970Hz 500mS on, 500mS off	1 1 0 1 1	ISO8201 LF	-	90	96	5	10
29	Intermittent 2900Hz 500mS on, 500mS off	0 0 1 1 1	ISO8201 HF	-	103	109	13	27
30	Yodel 800Hz/1000Hz, 0.25sec	1 0 1 1 1	BT Banshee (FP1063.1)	-	94	100	6	12
31	Continuous 1000Hz	0 1 1 1 1	BT Banshee (FP1063.1)	-	88	94	6	14
32	Bell Tone	1 1 1 1 1	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 Products Regulation.
- 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.