

Tone	Tone Type	Tone Description /Application	Dip Switch (S1/S2)	3rd Stage Tone	Peak Sound Level (dBA @1m)
1.		970Hz (BS5839-1:2002)	0-0-0-0-0-0	18	110
2		800Hz/970Hz @ 2Hz (BS5839-1:2002)	0-0-0-0-0-1	1	110
3		800Hz – 970Hz @ 1Hz (BS5839-1:2002)	0-0-0-0-1-0	1	110
4		970Hz 1s OFF/1s ON (Apollo Fire Systems Alert Tone, BS5839-1:2002)	0-0-0-0-1-1	1	110
5		970Hz, 0.5s/ 630Hz, 0.5s (Apollo Fire Systems Evacuate Tone, BS5839-1:2002)	0-0-0-1-0-0	1	110
6		554Hz, 0.1s/ 440Hz, 0.4s (France – AFNOR NF S 32 001 )	0-0-0-1-0-1	1	107
7		500 – 1200Hz, 3.5s/ 0.5s OFF (Netherlands – NEN 2575:2000 Dutch Slow Whoop)	0-0-0-1-1-0	1	110
8		420Hz 0.625s ON/0.625s OFF (Australia AS1670 Alert tone)	0-0-0-1-1-1	1	105
9		500 – 1200Hz, 0.5s/ 0.5s OFF x 3/1.5s OFF (Australia AS1670 Evacuation tone)	0-0-1-0-0-0	1	110
10		550Hz/440Hz @ 0.5Hz	0-0-1-0-0-1	19	107
11		970Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201 Low tone)	0-0-1-0-1-0	1	110
12		2850Hz, 0.5s ON/0.5s OFF x 3/1.5s OFF (ISO 8201 High tone)	0-0-1-0-1-1	1	112
13		1200Hz – 500Hz @ 1Hz (DIN 33 404)	0-0-1-1-0-0	1	110
14		400Hz	0-0-1-1-0-1	18	105
15		550Hz, 0.7s/1000Hz, 0.33s	0-0-1-1-1-0	1	111
16		1500Hz – 2700Hz @ 3Hz (Vandal Alarm)	0-0-1-1-1-1	1	116
17		Simulated Bell	0-1-0-0-0-0	1	112
18		2130Hz	0-1-0-0-0-1	1	113
19		660Hz	0-1-0-0-1-0	10	109
20		660Hz 1.8s ON/1.8s OFF	0-1-0-0-1-1	19	108
21		660Hz 0.15s ON/0.15s OFF	0-1-0-1-0-0	19	107
22		510Hz, 0.25s/ 610Hz, 0.25s	0-1-0-1-0-1	1	107
23		800/1000Hz 0.5s each (1Hz)	0-1-0-1-1-0	1	111
24		250Hz – 1200Hz @ 12Hz	0-1-0-1-1-1	1	105
25		500Hz – 1200Hz @ 0.33Hz.	0-1-1-0-0-0	1	110
26		2400Hz – 2900Hz @ 9Hz	0-1-1-0-0-1	1	116
27		2400Hz – 2900Hz @ 3Hz	0-1-1-0-1-0	1	116
28		800Hz – 970Hz @ 100Hz	0-1-1-0-1-1	1	110
29		800Hz – 970Hz @ 9Hz	0-1-1-1-0-0	1	110
30		800Hz – 970Hz @ 3Hz	0-1-1-1-0-1	1	110
31		800Hz, 0.25s ON/1s OFF	0-1-1-1-1-0	1	108
32		500Hz – 1200Hz, 3.75s/0.25s OFF (AS2220)	0-1-1-1-1-1	1	110
33		340Hz	1-0-0-0-0-0	1	106
34		1000Hz	1-0-0-0-0-1	18	111
35		1400Hz – 1600Hz, 1s/1600Hz – 1400Hz, 0.5s (NF 48-265)	1-0-0-0-1-0	1	110
36		660Hz 6.5s ON/13s OFF	1-0-0-0-1-1	19	108
37		1000Hz/2000Hz, 1s each	1-0-0-1-0-0	1	113
38		720Hz, 0.7s ON/0.3s OFF	1-0-0-1-0-1	1	106
39		970Hz, 0.25s ON/OFF	1-0-0-1-1-0	1	110
40		2800Hz, 1s ON/OFF	1-0-0-1-1-1	1	113
41		2800Hz 0.25s ON/OFF	1-0-1-0-0-0	1	113
42		2400/2900 @ 2Hz	1-0-1-0-0-1	1	115
43		Chime, 554Hz/440Hz Single shot 'ding dong'	1-0-1-0-1-0	1	104
44		Chime, 554Hz/440Hz Repeating 'ding dong'	1-0-1-0-1-1	1	107
45		Chime, 970Hz/800Hz Single shot 'ding dong'	1-0-1-1-0-0	1	106
46		Chime, 970Hz/800Hz Repeating 'ding dong'	1-0-1-1-0-1	1	106
47		Hooter, Repeating	1-0-1-1-1-0	1	107
48		Gentle alarm - Tone 2, rises slowly to full volume over 30s	1-0-1-1-1-1	1	109
49		Time-Out Alarm – As Tone 2, cuts off after 10 mins	1-1-0-0-0-0	1	109
50		Time-Out Alarm – As Tone 2, cuts off after 2 mins	1-1-0-0-0-1	1	109
51		750Hz 0.33s ON/0.51s OFF	1-1-0-0-1-0	1	106
52		750Hz 0.51s ON/0.33s OFF	1-1-0-0-1-1	1	107
53		550Hz, 0.33s/1000Hz, 0.7s	1-1-0-1-0-0	1	111
54		600Hz – 900Hz/ 0.9s	1-1-0-1-0-1	1	109
55		660Hz – 680Hz/ 0.9s	1-1-0-1-1-0	1	105
56		670Hz – 725Hz/ 0.9s	1-1-0-1-1-1	1	107
57		920Hz – 750Hz/ 0.9s	1-1-1-0-0-0	1	110
58		700Hz - 900Hz, 0.3s/0.6s OFF	1-1-1-0-0-1	1	109
59		900Hz - 760Hz, 0.6s/0.3s OFF	1-1-1-0-1-0	1	110
60		750Hz	1-1-1-0-1-1	18	107
61		Power Only – Use with Stage 3 control for manual/intermittent chime triggering	1-1-1-1-0-0	43	
62		Power Only – Use with Stage 3 control for manual/intermittent chime triggering	1-1-1-1-0-1	43	
63		Power Only – Use with Stage 3 control for manual/intermittent horn triggering	1-1-1-1-1-0	47	
64		Reserved for future use	1-1-1-1-1-1		

# Installation Instructions

**EN**



## Installation Manual

### Installation

- The sounder is installed by first mounting the base unit and making the external wiring connections to the base. The head unit then automatically connects when it is attached to the base.
- The sounder head is separated from the base by unlocking the four ¼-turn fasteners in the corners of the sounder. (Recommended screwdriver: Philips No. 2, min 100mm long).
- Note that the head only fits onto the base one way around.





### Wiring

- Power

Device	Common (Neutral)	20 -50V AC
Sounder	 AC1	 AC2

Each power terminal is duplicated to enable simple 'daisy-chain' connection of multiple units.

- Remote Tone Switching (If required): Externally link control terminals as shown below.

Alarm Stage	Example Signal	Activation
Stage 1	'Alert'	No Connection (Default)
Stage 2	'Evacuate'	Link Terminal  to terminal 
Stage 3	'All Clear'	Link Terminal  to terminal 

### Controls

- Tone Selection

The first and second stage alarm tones are independently set using 6-way dipswitches S1 and S2 respectively. The required settings are shown in the table overleaf. The third stage alarm tone is pre-set to complement the selected first stage tone as shown in the table.

- Volume Control

The sound output of the unit can be reduced by up to 20dBA by adjusting the potentiometer. At low sound levels the sound may take a few seconds to decay away after power is removed from the sounder.

### Technical Specification:

Supply Voltage Range.....	20-53V AC 50/60Hz
Current (Sounder).....	10-50mA* max. (Typ. 45mA @ 24V, Tone 1)
(Sounder-Beacon) ,.....	30-100mA*Max (Typ. 65mA @ 24V, Tone 1)
Peak Sound Level .....	104-116 dBA at 1m* (Typ. 110dBA @ 24V, Tone 1)
Number of Tones.....	64
Frequency Range .....	340 - 2900 Hz*
Volume Control .....	20 dBA typical
Remote Tone Switching.....	Provision for 3 volt-free contact activated alarm stages
Operating Temperature.....	- 25°C to +55°C
Casing .....	High Impact Polycarbonate/ABS
IP Rating.....	IP66 with suitable cable glands
Synchronisation .....	Automatic with Klaxon Nexus and Sonos Sounders

\*depends on selected tone and supply voltage



The European directive "Waste Electrical and Electronic Equipment" (WEEE) aims to minimise the impact of electrical and electronic equipment waste on the environment and human health. To conform with this directive, electrical equipment marked with this symbol must not be disposed of in European public disposal systems. European users of electrical equipment must now return end-of-life equipment for disposal. Further information can be found on the following website: <http://www.recyclethis.info/>.