



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)	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

- 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.

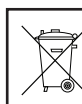
- Volume Control

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	10-50mA* max. (Typ. 45mA @ 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/>.