

## 1. Technical Specification: DC Sounder-Only/DC Sounder with 5J Xenon Beacon

Supply Voltage Range	10-60V DC	
Current – Sounder	10-50mA*	(Typ. 45mA @ 24V, Tone 1)
Current – Beacon (Where fitted)	250mA Average, 700mA Peak*	
Peak Sound Level:	104-116 dBA at 1m*	(Typ. 110dBA @ 24V, Tone 1)
Number of Tones:	64	
Frequency Range	340-2900 Hz*	
Volume Control	20dBA typical	
Remote Tone Switching	Provision for 3 alarm stages (Negative voltage activation)	
Operating Temperature:	- 25°C to +70°C	
Casing:	High Impact Polycarbonate/ABS	
IP Rating:	IP66	
Synchronisation	Automatic with Klaxon Nexus and Sonos Sounders	







\*depends on selected tone and supply voltage

## 2. Installation

- a. 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.
- b. 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).
- c. Note that the head only fits onto the base one way around. If a beacon is fitted, care should be taken when mounting the base to ensure that the beacon will be positioned in the desired orientation after the sounder is attached.

## 3. Wiring

The sounder and beacon have separate wiring terminals. Each terminal is duplicated to enable simple ‘daisy-chain’ connection of multiple units.

Line	Terminal Marking
Sounder Positive Supply (10 to 60V DC)	 +
Sounder Negative Supply (0V)	 -
2 <sup>nd</sup> Stage Alarm Control (Connect to 0V to activate)	 S2
3 <sup>rd</sup> Stage Alarm Control (Connect to 0V to activate)	 S3
Beacon Positive Supply (10 to 60V DC)	 +
Beacon Negative Supply (0V)	 -

## 4. Controls

- a. 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.

- b. Volume Control

The sound output of the unit can be reduced by up to 20dBA by adjusting the potentiometer.

- c. Beacon Flash Controls (If fitted)

The flash mode of the beacon can be altered using the 2-way dipswitch marked 

Switch	Off	On
1	Single Flash	Double Flash
2	60 flashes per minute	30 flashes per minute

# Nexus 110 DC

# Tone Table

TONE	TOPE TYPE	TOPE DESCRIPTION/ APPLICATION	DIP SWITCH (S1/S2) 1 2 3 4 5 6	3 <sup>rd</sup> STAGE TONE	PEAK SOUND LEVEL (dBA @ 1m)	SOUNDER CURRENT (mA AVG)
1.	————	970Hz (BS5839-1:2002)	0-0-0-0-0-0	18	110	45
2.	□□□□	800Hz/970Hz @ 2Hz (BS5839-1:2002)	0-0-0-0-0-1	1	110	44
3.	∩∩∩∩	800Hz – 970Hz @ 1Hz (BS5839-1:2002)	0-0-0-0-1-0	1	110	43
4.	- - - -	970Hz 1s OFF/1s ON (Apollo Fire Systems Alert Tone, BS5839-1:2002)	0-0-0-0-1-1	1	110	25
5.	□□□□	970Hz, 0.5s/ 630Hz, 0.5s (Apollo Fire Systems Evacuate Tone, BS5839-1:2002)	0-0-0-1-0-0	1	110	39
6.	□□□□	554Hz, 0.1s/ 440Hz, 0.4s (France – AFNOR NF S 32 001 )	0-0-0-1-0-1	1	107	24
7.	∩∩∩∩	500 – 1200Hz, 3.5s/ 0.5s OFF (Netherlands – NEN 2575:2000)	0-0-0-1-1-0	1	110	28
8.	- - - -	420Hz 0.625s ON/0.625s OFF (Australia AS1670 Alert tone)	0-0-0-1-1-1	1	105	9
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	13
10.	□□□□	550Hz/440Hz @ 0.5Hz	0-0-1-0-0-1	19	107	26
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	19
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	16
13.	∩∩∩∩	1200Hz – 500Hz @ 1Hz (DIN 33 404)	0-0-1-1-0-0	1	110	34
14.	————	400Hz	0-0-1-1-0-1	18	105	21
15.	□□□□	550Hz, 0.7s/1000Hz, 0.33s	0-0-1-1-1-0	1	111	33
16.	∩∩∩∩	1500Hz – 2700Hz @ 3Hz (Vandal Alarm)	0-0-1-1-1-1	1	116	46
17.	🔔	Simulated Bell	0-1-0-0-0-0	1	112	26
18.	————	2400Hz	0-1-0-0-0-1	1	113	34
19.	————	660Hz	0-1-0-0-1-0	10	109	31
20.	- - - -	660Hz 1.8s ON/1.8s OFF	0-1-0-0-1-1	19	108	16
21.	- - - -	660Hz 0.15s ON/0.15s OFF	0-1-0-1-0-0	19	107	17
22.	□□□□	510Hz, 0.25s/ 610Hz, 0.25s	0-1-0-1-0-1	1	107	28
23.	□□□□	800/1000Hz 0.5s each (1Hz)	0-1-0-1-1-0	1	111	44
24.	∩∩∩∩	250Hz – 1200Hz @ 12Hz	0-1-0-1-1-1	1	105	24
25.	∩∩∩∩	500Hz – 1200Hz @ 0.33Hz.	0-1-1-0-0-0	1	110	31
26.	∩∩∩∩	2400Hz – 2900Hz @ 9Hz	0-1-1-0-0-1	1	116	45
27.	∩∩∩∩	2400Hz – 2900Hz @ 3Hz	0-1-1-0-1-0	1	116	45
28.	∩∩∩∩	800Hz – 970Hz @ 100Hz	0-1-1-0-1-1	1	110	42
29.	∩∩∩∩	800Hz – 970Hz @ 9Hz	0-1-1-1-0-0	1	110	43
30.	∩∩∩∩	800Hz – 970Hz @ 3Hz	0-1-1-1-0-1	1	110	43
31.	- - - -	800Hz, 0.25s ON/1s OFF	0-1-1-1-1-0	1	108	10
32.	∩∩∩∩	500Hz – 1200Hz, 3.75s/0.25s OFF (AS2220)	0-1-1-1-1-1	1	110	29
33.	————	340Hz	1-0-0-0-0-0	1	106	18
34.	————	1000Hz	1-0-0-0-0-1	18	111	47
35.	∩∩∩∩	1400Hz – 1600Hz, 1s/1600Hz – 1400Hz, 0.5s (NF 48-265)	1-0-0-0-1-0	1	110	44
36.	- - - -	660Hz 6.5s ON/13s OFF	1-0-0-0-1-1	19	108	31
37.	□□□□	1000Hz/2000Hz, 1s each	1-0-0-1-0-0	1	113	41
38.	- - - -	720Hz, 0.7s ON/0.3s OFF	1-0-0-1-0-1	1	106	26
39.	- - - -	970Hz, 0.25s ON/OFF	1-0-0-1-1-0	1	110	25
40.	- - - -	2800Hz, 1s ON/OFF	1-0-0-1-1-1	1	113	22
41.	- - - -	2800Hz 0.25s ON/OFF	1-0-1-0-0-0	1	113	21
42.	□□□□	2400/2900 @ 2Hz	1-0-1-0-0-1	1	115	43
43.		Chime, 554Hz/440Hz Single shot 'ding dong'	1-0-1-0-1-0	1	104	15
44.		Chime, 554Hz/440Hz Repeating 'ding dong'	1-0-1-0-1-1	1	107	15
45.		Chime, 970Hz/800Hz Single shot 'ding dong'	1-0-1-1-0-0	1	106	36
46.		Chime, 970Hz/800Hz Repeating 'ding dong'	1-0-1-1-0-1	1	106	36
47.		Hooter, Repeating	1-0-1-1-1-0	1	107	13
48.	□□□□	Gentle alarm - Tone 2, rises slowly to full volume over 30s	1-0-1-1-1-1	1	109	44
49.	□□□□	Time-Out Alarm – As Tone 2, cuts off after 10 mins	1-1-0-0-0-0	1	109	44
50.	□□□□	Time-Out Alarm – As Tone 2, cuts off after 2 mins	1-1-0-0-0-1	1	109	44
51.	- - - -	750Hz 0.33s ON/0.51s OFF	1-1-0-0-1-0	1	106	12
52.	- - - -	750Hz 0.51s ON/0.33s OFF	1-1-0-0-1-1	1	107	25
53.	- - - -	550Hz, 0.33s/1000Hz, 0.7s	1-1-0-1-0-0	1	111	41
54.	∩∩∩∩	600Hz – 900Hz/ 0.9s	1-1-0-1-0-1	1	109	37
55.	∩∩∩∩	660Hz – 680Hz/ 0.9s	1-1-0-1-1-0	1	105	33
56.	∩∩∩∩	670Hz – 725Hz/ 0.9s	1-1-0-1-1-1	1	107	33
57.	∩∩∩∩	920Hz – 750Hz/ 0.9s	1-1-1-0-0-0	1	110	41
58.	∩∩∩∩	700Hz - 900Hz, 0.3s/0.6s OFF	1-1-1-0-0-1	1	109	15
59.	∩∩∩∩	900Hz - 760Hz, 0.6s/0.3s OFF	1-1-1-0-1-0	1	110	28
60.	————	750Hz	1-1-1-0-1-1	18	107	39
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			

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