

1. Technical Specification:	DC Sounder-Only/DC Sounder with 5J Xenon Beacon	
Supply Voltage Range	10-60V DC	
Current – Sounder	0.12 – 0.55A*	(Typ. 0.5A @ 24V, Tone 2)
Current – Beacon (Where fitted)	250mA Average, 700mA Peak*	
Peak Sound Level:	110-120 dBA at 1m*	(Typ. 120dBA @ 24V, Tone 2)
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 nd Stage Alarm Control (Connect to 0V to activate)	 S2
3 rd 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 120 DC

Tone Table

TONE	TOPE TYPE	TOPE DESCRIPTION/ APPLICATION	DIP SWITCH (S1/S2) 1 2 3 4 5 6	3 rd STAGE TONE	PEAK SOUND LEVEL (dBA @ 1m)	SOUNDER CURRENT (A AVG)
1.	————	970Hz (BS5839-1:2002)	0-0-0-0-0-0	18	118	0.55
2.	□□□□	800Hz/970Hz @ 2Hz (BS5839-1:2002)	0-0-0-0-0-I	1	120	0.50
3.	∩∩∩∩	800Hz – 970Hz @ 1Hz (BS5839-1:2002)	0-0-0-0-I-0	1	120	0.50
4.	- - - -	970Hz 1s OFF/1s ON (Apollo Fire Systems Alert Tone, BS5839-1:2002)	0-0-0-0-I-I	1	118	0.27
5.	□□□□	970Hz, 0.5s/ 630Hz, 0.5s (Apollo Fire Systems Evacuate Tone, BS5839-1:2002)	0-0-0-I-0-0	1	118	0.51
6.	□□□□	554Hz, 0.1s/ 440Hz, 0.4s (France – AFNOR NF S 32 001)	0-0-0-I-0-I	1	118	0.33
7.	∩∩∩∩	500 – 1200Hz, 3.5s/ 0.5s OFF (Netherlands – NEN 2575:2000)	0-0-0-I-I-0	1	120	0.45
8.	- - - -	420Hz 0.625s ON/0.625s OFF (Australia AS1670 Alert tone)	0-0-0-I-I-I	1	115	0.17
9.	∩∩∩∩	500 – 1200Hz, 0.5s/ 0.5s OFF x 3/ 1.5s OFF (Australia AS1670 Evacuation tone)	0-0-I-0-0-0	1	119	0.22
10.	□□□□	550Hz/440Hz @ 0.5Hz	0-0-I-0-0-I	19	118	0.34
11.	- - - -	970Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201 Low tone)	0-0-I-0-I-0	1	118	0.21
12.	- - - -	2850Hz, 0.5s ON/0.5s OFF x 3/ 1.5s OFF (ISO 8201 High tone)	0-0-I-0-I-I	1	110	0.19
13.	∩∩∩∩	1200Hz – 500Hz @ 1Hz (DIN 33 404)	0-0-I-I-0-0	1	119	0.50
14.	————	400Hz	0-0-I-I-0-I	18	114	0.36
15.	□□□□	550Hz, 0.7s/1000Hz, 0.33s	0-0-I-I-I-0	1	120	0.39
16.	∩∩∩∩	1500Hz – 2700Hz @ 3Hz (Vandal Alarm)	0-0-I-I-I-I	1	118	0.47
17.	🔔	Simulated Bell	0-I-0-0-0-0	1	115	0.32
18.	————	2400Hz	0-I-0-0-0-I	1	119	0.51
19.	————	660Hz	0-I-0-0-I-0	10	114	0.51
20.	- - - -	660Hz 1.8s ON/1.8s OFF	0-I-0-0-I-I	19	114	0.26
21.	- - - -	660Hz 0.15s ON/0.15s OFF	0-I-0-I-0-0	19	113	0.27
22.	□□□□	510Hz, 0.25s/ 610Hz, 0.25s	0-I-0-I-0-I	1	115	0.44
23.	□□□□	800/1000Hz 0.5s each (1Hz)	0-I-0-I-I-0	1	120	0.51
24.	∩∩∩∩	250Hz – 1200Hz @ 12Hz	0-I-0-I-I-I	1	114	0.52
25.	∩∩∩∩	500Hz – 1200Hz @ 0.33Hz.	0-I-I-0-0-0	1	119	0.51
26.	∩∩∩∩	2400Hz – 2900Hz @ 9Hz	0-I-I-0-0-I	1	113	0.45
27.	∩∩∩∩	2400Hz – 2900Hz @ 3Hz	0-I-I-0-I-0	1	113	0.45
28.	∩∩∩∩	800Hz – 970Hz @ 100Hz	0-I-I-0-I-I	1	120	0.50
29.	∩∩∩∩	800Hz – 970Hz @ 9Hz	0-I-I-I-0-0	1	120	0.50
30.	∩∩∩∩	800Hz – 970Hz @ 3Hz	0-I-I-I-0-I	1	120	0.50
31.	- - - -	800Hz, 0.25s ON/1s OFF	0-I-I-I-I-0	1	119	0.12
32.	∩∩∩∩	500Hz – 1200Hz, 3.75s/0.25s OFF (AS2220)	0-I-I-I-I-I	1	119	0.48
33.	————	340Hz	I-0-0-0-0-0	1	114	0.33
34.	————	1000Hz	I-0-0-0-0-I	18	116	0.51
35.	∩∩∩∩	1400Hz – 1600Hz, 1s/1600Hz – 1400Hz, 0.5s (NF 48-265)	I-0-0-0-I-0	1	120	0.50
36.	- - - -	660Hz 6.5s ON/13s OFF	I-0-0-0-I-I	19	114	0.18
37.	□□□□	1000Hz/2000Hz, 1s each	I-0-0-I-0-0	1	117	0.49
38.	- - - -	720Hz, 0.7s ON/0.3s OFF	I-0-0-I-0-I	1	119	0.37
39.	- - - -	970Hz, 0.25s ON/OFF	I-0-0-I-I-0	1	118	0.27
40.	- - - -	2800Hz, 1s ON/OFF	I-0-0-I-I-I	1	110	0.24
41.	- - - -	2800Hz 0.25s ON/OFF	I-0-I-0-0-0	1	110	0.23
42.	□□□□	2400/2900 @ 2Hz	I-0-I-0-0-I	1	113	0.44
43.		Chime, 554Hz/440Hz Single shot 'ding dong'	I-0-I-0-I-0	1	115	0.28
44.		Chime, 554Hz/440Hz Repeating 'ding dong'	I-0-I-0-I-I	1	118	0.28
45.		Chime, 970Hz/800Hz Single shot 'ding dong'	I-0-I-I-0-0	1	116	0.28
46.		Chime, 970Hz/800Hz Repeating 'ding dong'	I-0-I-I-0-I	1	116	0.28
47.		Hooter, Repeating	I-0-I-I-I-0	1	114	0.22
48.	□□□□	Gentle alarm - Tone 2, rises slowly to full volume over 30s	I-0-I-I-I-I	1	120	0.50
49.	□□□□	Time-Out Alarm – As Tone 2, cuts off after 10 mins	I-I-0-0-0-0	1	120	0.50
50.	□□□□	Time-Out Alarm – As Tone 2, cuts off after 2 mins	I-I-0-0-0-I	1	120	0.50
51.	- - - -	750Hz 0.33s ON/0.51s OFF	I-I-0-0-I-0	1	119	0.15
52.	- - - -	750Hz 0.51s ON/0.33s OFF	I-I-0-0-I-I	1	118	0.32
53.	- - - -	550Hz, 0.33s/1000Hz, 0.7s	I-I-0-I-0-0	1	117	0.46
54.	∩∩∩∩	600Hz – 900Hz/ 0.9s	I-I-0-I-0-I	1	119	0.50
55.	∩∩∩∩	660Hz – 680Hz/ 0.9s	I-I-0-I-I-0	1	116	0.49
56.	∩∩∩∩	670Hz – 725Hz/ 0.9s	I-I-0-I-I-I	1	119	0.50
57.	∩∩∩∩	920Hz – 750Hz/ 0.9s	I-I-I-0-0-0	1	120	0.51
58.	∩∩∩∩	700Hz - 900Hz, 0.3s/0.6s OFF	I-I-I-0-0-I	1	119	0.19
59.	∩∩∩∩	900Hz - 760Hz, 0.6s/0.3s OFF	I-I-I-0-I-0	1	120	0.35
60.	————	750Hz	I-I-I-0-I-I	18	118	0.49
61.		Power Only – Use with Stage 3 control for manual/intermittent chime triggering	I-I-I-I-0-0	43		
62.		Power Only – Use with Stage 3 control for manual/intermittent chime triggering	I-I-I-I-0-I	43		
63.		Power Only – Use with Stage 3 control for manual/intermittent horn triggering	I-I-I-I-I-0	47		
64.		Reserved for future use	I-I-I-I-I-I			

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