VSL base sounder/beacon 24Vdc

The VSL base sounder beacon is for use with conventional fire alarm systems including SAV-WIRE® two wire. It is designed to accept most leading detector bases and offers a cost effective solution to sounder and beacon installation. The low profile combination is supplied with 32 tones along with a two-stage alarm override which is activated by a third negative wire from the fire panel. The unique and highly visible beacon provides a neat and effective mounting solution in a single product.

All tones have been selected to comply with the latest sound patterns and frequencies used throughout the world.

When a detector is not being mounted to the sounder a blank cover plate is available so that the unit can be used as a stand alone sounder beacon combination.

- 32 tones plus a selectable override tone
- switch selectable volume control
- designed to work with both conventional and two-wire (SAV-WIRE®) systems
- white or red cover plate sold separately
- excellent 360 degree visibility of the high performance beacon
- designed to accept most leading detector bases
- ideally suited for DDA applications

TECHNICAL

voltage range (Vdc)	18 - 30
number of tones	32
operating frequency (Hz)	440 - 2900
temperature range (°C)	-20 to +70
monitoring	reverse polarity
protection rating	IP21C
boxed weight (kg)	0.27
body colours available	white or ivory (ABS fire retardant plastic)
lens colour available	clear (red LED's), red, amber and blue

PERFORMANCE

volume setting	high	med	low
sound output, typical (dBA)	94.8	91.0	88.5
sound output, anechoic chamber (dBA)	90.9	87.0	84.4
sound output, reverberation chamber (dBA)	110.8	107.6	105.1
max. current consumption @ 24Vdc (mA)	17.2	14.9	12.9
power consumption @ 24Vdc (mW)	419	358	310

NB: see tone list performance for more accurate current consumption figures

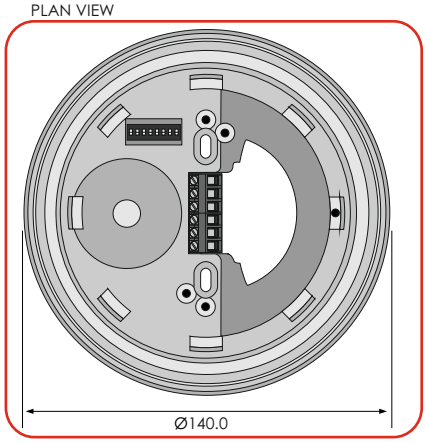
ORDERING INFORMATION

white body, 32 tone, clear lens (red LED)	509-001
white body, 32 tone, red lens	509-003
white body, 32 tone, amber lens	509-005
white body, 32 tone, blue lens	509-007
ivory body, 32 tone, clear lens (red LED)	509-019
ivory body, 32 tone, red lens	509-020
white cover plate	507-006
ivory cover plate	507-029
red cover plate	507-030

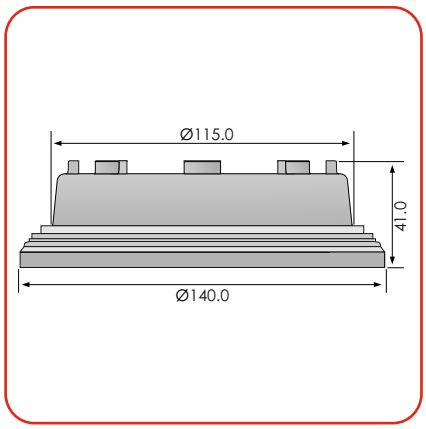
00 44 (0)1420 592444 sales@cranfordcontrols.com

DIMENSIONS, PRODUCT MOUNTING & CABLE ENTRY

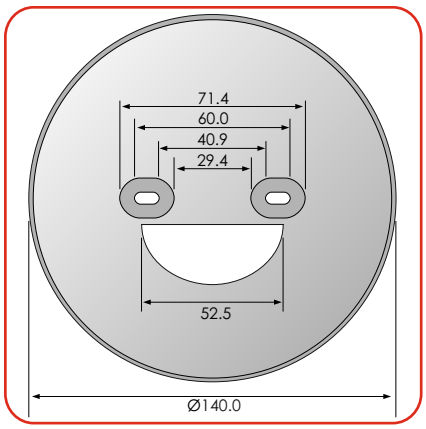
PLAN VIEW



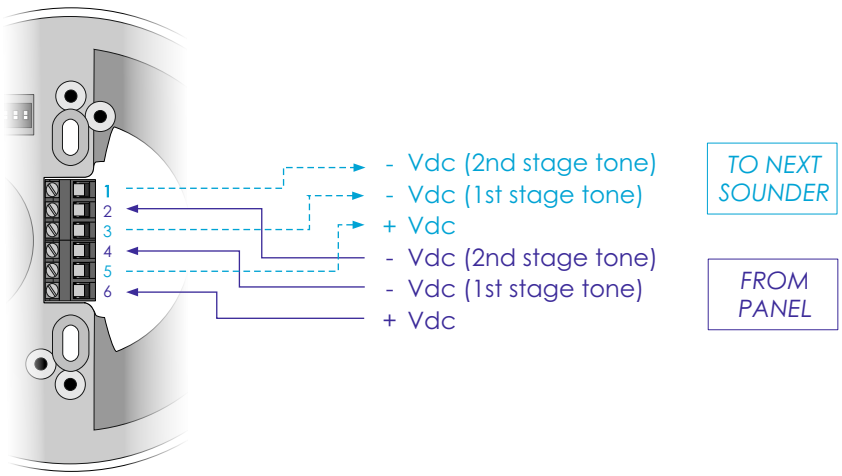
SIDE VIEW



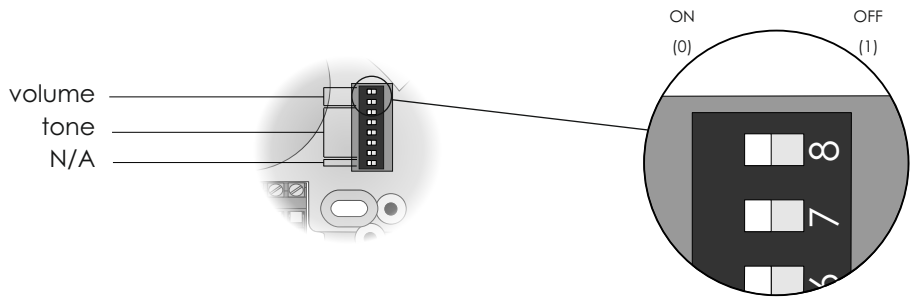
BASE VIEW



WIRING CONFIGURATION

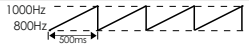
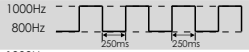
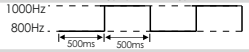
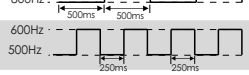
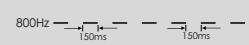
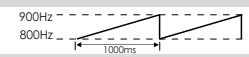
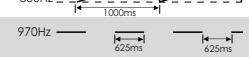
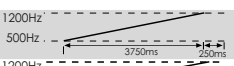
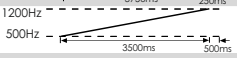
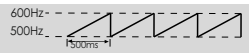
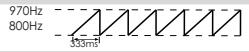
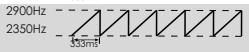
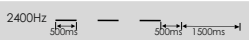
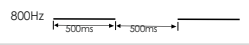
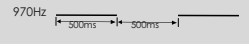
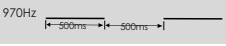
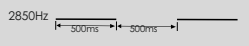
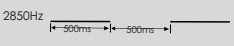
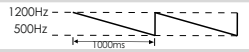
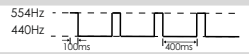
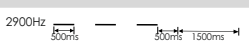
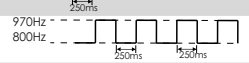
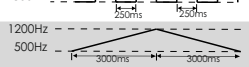


TONE & VOLUME SELECTION



volume	7	8
high	OFF	ON
medium	ON	OFF
low	OFF	OFF

TONE LIST - GRAPHICAL

no.	name	1st stage frequency	1st stage graphical	2nd stage frequency	2nd stage graphical
1	LF Sweep (Cranford sweep)	800-1000Hz swept every 500ms (2Hz)		800Hz continuous	
2	Alternative warble BS	800Hz for 250ms, then 960Hz for 250ms		800Hz continuous	
3	Warble Tone BS	800Hz for 500ms, then 1000Hz for 500ms		800Hz continuous	
4	Alternative warble BS	500Hz for 250ms, then 600Hz for 250ms		500Hz continuous	
5	HF Back up Interrupted	2800Hz for 1000ms, then off for 1000ms		2800Hz continuous	
6	LF Back up Alarm	800Hz for 150ms, then off for 150ms		800Hz continuous	
7	HF Back up Interrupted (fast)	2800Hz for 150ms, then off for 150ms		800Hz continuous	
8	LF Continuous tone BS5839	800Hz continuous		800Hz continuous	
9	Sweep - 1Hz	800-900Hz swept every 1000ms (1Hz)		800Hz continuous	
10	Australian slow whoop	970Hz for 625ms, then off for 150m		500-1200Hz for 3250ms, then off for 250ms	
11	Dutch sweep	970Hz continuous		500-1200Hz for 3500ms, then off for 500ms	
12	Analogue sweep	500-600Hz swept every 500ms (2Hz)		500Hz continuous	
13	Sweep - 3Hz	800-970Hz swept every 333ms (3Hz)		800Hz continuous	
14	Alternate HF slow sweep	2350-2900Hz swept every 333ms (3Hz)		2400Hz continuous	
15	Fast HF sweep	2400-2800Hz swept every 143ms (7Hz)		2400Hz continuous	
16	US Temporal Pattern LF	950Hz for 500ms on, 500ms off (x3), then 1500ms off		800Hz continuous	
17	Interrupted BS	800Hz for 500ms, then off for 500ms		800Hz continuous	
18	ISO 8201 LF BS5839 Pt 1	970Hz for 500ms, then off for 500ms		970Hz for 500ms, then off for 500ms	
19	Interrupted medium	1000Hz for 250ms, then off for 250ms		800Hz continuous	
20	ISO8201 HF	2850Hz for 500ms, then off for 500ms		2850Hz for 500ms, then off for 500ms	
21	Continuous	1000Hz continuous		1000Hz continuous	
22	LF Buzz	800-950Hz swept every 9ms (110Hz)		800Hz continuous	
23	HF Continuous	2800Hz continuous		2800Hz continuous	
24	Sweep	800-970Hz swept every 111ms (9Hz)		800Hz continuous	
25	German DIN tone	1200-500Hz swept every 1000ms (1Hz)		800Hz continuous	
26	Swedish Fire signal	660Hz for 150ms, then off for 150ms		660Hz for 150ms, then off for 150ms	
27	French tone AFNOR	554Hz for 100ms, then 440Hz for 400ms		800Hz continuous	
28	Swedish all clear signal	660Hz continuous		660Hz continuous	
29	US Temporal Pattern HF	2900Hz for 500ms on, 500ms off (x3), then1500ms off		2900Hz continuous	
30	Siren 2 way ramp (short)	500-1200Hz rising for 250ms, then falling for 250ms		800Hz continuous	
31	FP1063.1-Telecom	800Hz for 250ms, then 970Hz for 250ms		800Hz continuous	
32	Siren 2 way ramp (long)	500-1200Hz rising for 3000ms, then falling for 3000ms		800Hz continuous	

TONE LIST - PERFORMANCE

				typical current (mA)			typical sound output (dBA)		
no.	name	1st stage frequency	switch	low	medium	high	low	medium	high
1	LF Sweep (Cranford sweep)	800-1000Hz swept every 500ms (2Hz)	11111	13.9	11.2	9.9	84.4	87	90.9
2	Alternative warble BS	800Hz for 250ms, then 960Hz for 250ms	11110	13.8	10.8	9.6	84.2	86.7	89.9
3	Warble Tone BS	800Hz for 500ms, then 1000Hz for 500ms	11101	14.0	11.3	9.7	84.1	87.1	90.9
4	Alternative warble BS	500Hz for 250ms, then 600Hz for 250ms	11100	11.9	9.9	9.3	85.2	87.8	87.8
5	HF Back up Interrupted	2800Hz for 1000ms, then off for 1000ms	11011	15.7	12.0	9.7	83.4	86.7	93.3
6	LF Back up Alarm	800Hz for 150ms, then off for 150ms	11010	13.6	11.0	9.7	85.2	87.2	86.6
7	HF Back up Interrupted (fast)	2800Hz for 150ms, then off for 150ms	11001	15.4	11.9	9.8	83.7	86.9	92.2
8	LF Continuous tone BS5839	800Hz continuous	11000	13.4	10.7	9.5	85.1	87.1	87.9
9	Sweep - 1Hz	800-900Hz swept every 1000ms (1Hz)	10111	14.2	10.9	9.6	84.4	86.8	92.1
10	Australian slow whoop	970Hz for 625ms, then off for 150m	10110	13.8	11.0	9.3	84.7	87.1	90.1
11	Dutch sweep	970Hz continuous	10101	14.0	10.9	9.6	84.7	87.1	90.1
12	Analogue sweep	500-600Hz swept every 500ms (2Hz)	10100	12.3	10.1	9.0	85.2	87.7	88.8
13	Sweep - 3Hz	800-970Hz swept every 333ms (3Hz)	10011	14.7	10.8	9.5	84.5	86.9	91
14	Alternate HF slow sweep	2350-2900Hz swept every 333ms (3Hz)	10010	17.2	12.1	10.2	83.3	86.5	94.9
15	Fast HF sweep	2400-2800Hz swept every 143ms (7Hz)	10001	16.7	12.4	10.2	83.5	86.5	94.8
16	US Temporal Pattern LF	950Hz for 500ms on, 500ms off (x3), then 1500ms off	10000	13.6	10.9	9.0	84.3	87.2	89.5
17	Interrupted BS	800Hz for 500ms, then off for 500ms	01111	14.0	10.2	9.1	85.4	87.6	87.2
18	ISO 8201 LF BS5839 Pt 1	970Hz for 500ms, then off for 500ms	01110	13.7	11.2	9.8	84.7	87.2	90
19	Interrupted medium	1000Hz for 250ms, then off for 250ms	01101	13.8	11.5	9.9	84.4	87.2	90.4
20	ISO8201 HF	2850Hz for 500ms, then off for 500ms	01100	14.7	11.3	9.1	84.2	86.8	92.9
21	Continuous	1000Hz continuous	01011	14.1	11.3	9.7	84.1	87	91
22	LF Buzz	800-950Hz swept every 9ms (110Hz)	01010	12.9	10.8	9.4	84.5	87.1	90.5
23	HF Continuous	2800Hz continuous	01001	15.7	11.6	9.8	83.7	86.8	93.3
24	Sweep	800-970Hz swept every 111ms (9Hz)	01000	13.6	11.3	9.4	84.6	87.2	90.8
25	German DIN tone	1200-500Hz swept every 1000ms (1Hz)	00111	12.9	10.5	9.3	84.5	87	90.5
26	Swedish Fire signal	660Hz for 150ms, then off for 150ms	00110	13.2	10.9	8.7	84.9	87.4	90.2
27	French tone AFNOR	554Hz for 100ms, then 440Hz for 400ms	00101	11.8	9.9	9.0	85.3	87.7	88.7
28	Swedish all clear signal	660Hz continuous	00100	13.1	10.6	9.3	85	87.5	91.4
29	US Temporal Pattern HF	2900Hz for 500ms on, 500ms off (x3), then1500ms off	00011	14.9	11.6	9.1	83.9	86.3	92.9
30	Siren 2 way ramp (short)	500-1200Hz rising for 250ms, then falling for 250ms	00010	12.3	10.5	9.3	84.6	87.1	90.2
31	FP1063.1-Telecom	800Hz for 250ms, then 970Hz for 250ms	00001	13.9	10.8	9.5	85.1	87.3	89.8
32	Siren 2 way ramp (long)	500-1200Hz rising for 3000ms, then falling for 3000ms	00000	14.2	10.8	9.6	84.9	87.7	91