

Product Datasheet: VSO 24 Volt 32 Tone Platform Sounder - EN 54 Approved

Description

Improved electronic design and the use of a new, custom designed piezoelectric transducer have enabled current consumption to be reduced to as little as 6mA at 24Vdc. There is a local volume switch on each unit to allow individual sounders to be increased as necessary to suit every application.

The 32 tone version has all the major worldwide tones including AFNOR, DIN and NEN spec tones. With a wide operating frequency range of 440Hz to 2900Hz, the installer has maximum flexibility. The tone list matches the popular VTG and VTB spatial sounders allowing a uniform sound across the installation.

The standard 24Vdc units operate from 12 - 30Vdc. Standard on all VSO products is a second stage alarm allowing alert and evacuate signals to be switched via the CIE. If the unit is not being used in conjunction with a detector, a lockable cover plate can be fitted to convert the unit into a stand-alone wall or ceiling mounted sounder.

Standard Colour Available:

507-001 Standard White

Further colour matches are obtainable on request as a non approved product.

Red and White Cover Plates also available.

Tone Table

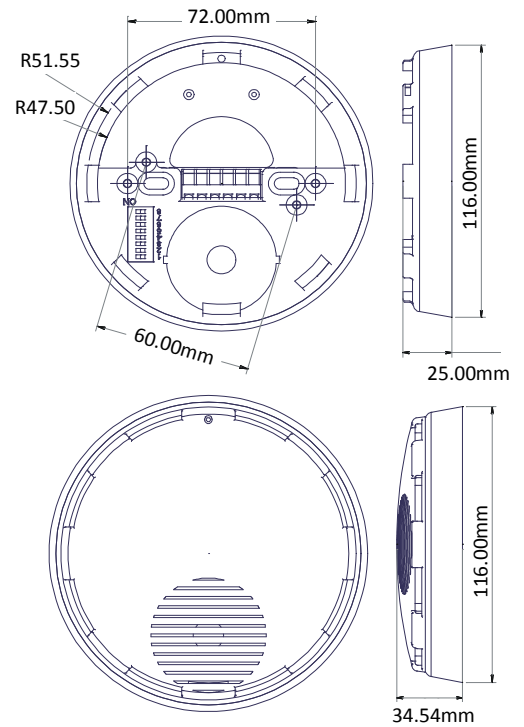
No.	Tone	Description	Switch	Sond
1	LF Sweep (Cranford sweep)	800-1000 Hz @ 0.5 s	11111	800 Hz cont
2	Alternative warble	800/960 Hz @ 2 Hz	11110	800 Hz cont
3	Warble Tone	800/1000 Hz @ 0.5 s	11101	800 Hz cont
4	Alternative warble	500/600 Hz @ 2 Hz	11100	500 Hz cont
5	HF Back up Interrupted tone	2800 Hz @ 1.0 s on/off	11011	2800 Hz cont
6	LF Back up Alarm	800 Hz @ 150 ms on/off	11010	800 Hz cont
7	HF Back up Interrupted tone - fast	2800 Hz @ 150 ms on/off	11001	800 Hz cont
8	LF Continuous tone BS 5839	800 Hz cont	11000	Same tone
9	Sweep tone (1 Hz)	800/900 Hz @ 1Hz	10111	800 Hz cont
10	Australian slow whoop	Intermittent 970 Hz 0.625 ms on/0.625 ms off	10110	500-1200 Hz - 3.75 s on 0.25 s off
11	Dutch sweep tone	970 Hz cont	10101	500-1200 Hz - 3.5 s on 0.5 s off
12	Analogue sweep tone	500/600 Hz @ 2 Hz	10100	500 Hz cont
13	Sweep tone (3 Hz)	800/970 Hz @ 3 Hz	10011	800 Hz cont
14	Alternate HF slow sweep	2350/2900 Hz @ 3 Hz	10010	2400 Hz cont
15	Fast HF sweep	2400-2800 Hz @ 7 Hz	10001	2400 Hz cont
16	US Temporal Pattern LF	950 Hz for 0.5 s on 0.5 s off x 3 then 1.5 s then repeat	10000	800 Hz cont
17	Interrupted tone	Interrupted tone 800 Hz @ 0.5 s on/off	01111	800 Hz cont
18	ISO 8201 LF BS 5839 Pt 1 1988	Intermittent 970 Hz 500 ms on / 500 ms off	01110	Same tone
19	Interrupted tone medium	1000 Hz @ 0.25 s on / off	01101	800 Hz cont
20	ISO 8201 HF	Intermittent 2850 Hz 500 ms on / 500 ms off	01100	Same tone
21	Continuous tone	1000 Hz continuous	01011	Same tone
22	LF Buzz	800-950 Hz swept @ 110 Hz	01010	800 Hz cont
23	HF Continuous	2800 Hz	01001	2800 Hz cont
24	Sweep tone (9 Hz)	800-970 Hz @ 9 Hz	01000	800 Hz cont
25	German DIN tone	Sweep 1200-500 Hz @ 1 Hz	00111	800 Hz cont
26	Swedish Fire signal	Intermittent 660 Hz 150 ms on / 150 ms off	00110	Same tone
27	French tone AFNOR	554 Hz for 100 ms and 440 Hz for 400 ms	00101	800 Hz cont
28	Swedish all clear signal	Continuous 660 Hz	00100	Same tone
29	US Temporal Pattern HF	2900 Hz for 0.5 s on 0.5 s off x 3 then off for 1.5 s then repeat	00011	2900 Hz cont
30	Siren 2 way ramp (short)	500/1200 Hz rising then falling 0.25 s	00010	800 Hz cont
31	FP1063.1-Telecom	Alternating tone 800/970 Hz @ 2 Hz	00001	800 Hz cont
32	Siren 2 way ramp (long)	500/1200 Hz 3 s rising / 3 s falling	00000	800 Hz cont

Technical Information

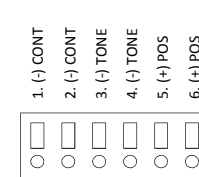
Part No.	VSO-32		
Sound Level:	Low	Med	High
Sound Output @ 1 metre (Tone 1):	87dBa	90dBa	93dBa
Current Consumption @ 24Vdc:	6mA	8mA	10mA
Power Consumption:	0.144W	0.192W	0.24W
Voltage Range:	18 - 30Vdc		
Number of Tones:	32		
Operating Frequency:	440Hz to 2900Hz		
IP Rating:	IP 21C		
Temperature Range:	- 20°C to + 70°C		
Weight (per unit packed):	110g		



Dimensions

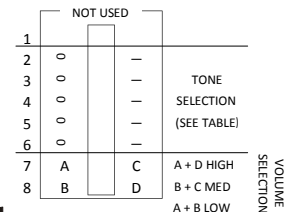


Connection



For sweep, warble or pips, wire negative to terminals 3 and/or 4 (-) TONE.

For continuous tone wire negative to 1 and/or 2 (-) CONT. Note that the (-) CONT tone will override the (-) TONE.



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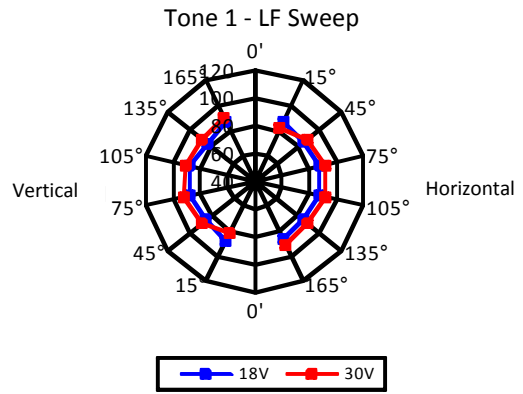
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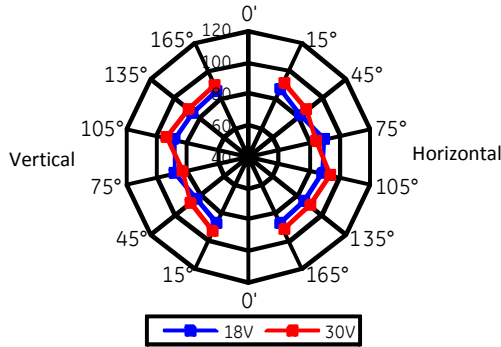
Product Datasheet: Operational Performance Data

Tone 1 - LF Sweep (Cranford Sweep)

Angle	Horizontal Plane		Vertical Plane	
	Min 18V	Max 30V	Min 18V	Max 30V
15°	87.7	81.8	88.6	92.7
45°	84.2	88.4	84.7	88.7
75°	87.4	91.5	88.2	92.4
105°	88.0	91.2	85.7	89.9
135°	84.0	88.1	84.8	89.0
165°	86.7	90.7	89.5	93.8



Tone 3 - Warble

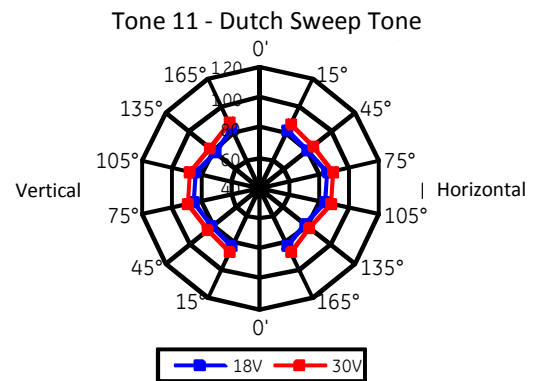


Tone 3 - Warble Tone

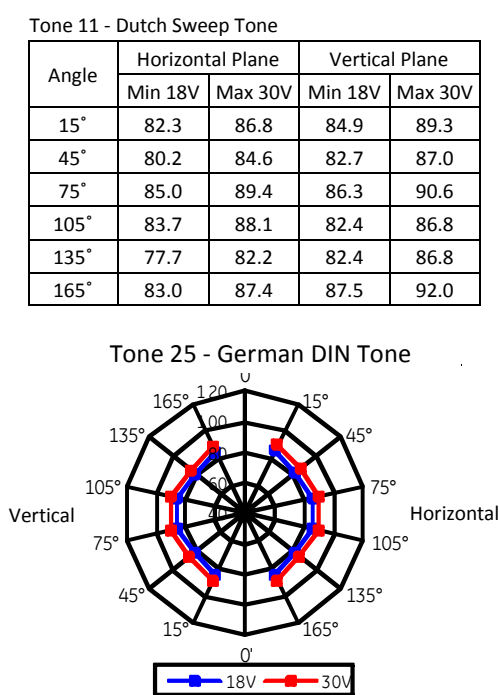
Angle	Horizontal Plane		Vertical Plane	
	Min 18V	Max 30V	Min 18V	Max 30V
15°	87.6	92.3	88.2	91.8
45°	82.8	87.6	85.4	89.9
75°	88.9	83.6	90.0	94.5
105°	88.6	93.2	87.9	92.4
135°	85.0	89.5	87.2	91.8
165°	86.4	91.0	91.4	95.9

Tone 11 - Dutch Sweep Tone

Angle	Horizontal Plane		Vertical Plane	
	Min 18V	Max 30V	Min 18V	Max 30V
15°	82.3	86.8	84.9	89.3
45°	80.2	84.6	82.7	87.0
75°	85.0	89.4	86.3	90.6
105°	83.7	88.1	82.4	86.8
135°	77.7	82.2	82.4	86.8
165°	83.0	87.4	87.5	92.0



Tone 25 - German DIN Tone



Tone 25 - German DIN Tone

Angle	Horizontal Plane		Vertical Plane	
	Min 18V	Max 30V	Min 18V	Max 30V
15°	85.3	89.6	87.2	91.4
45°	82.1	86.4	83.9	88.1
75°	85.9	90.2	86.7	91.1
105°	85.5	89.8	84.2	88.5
135°	81.6	86.0	83.3	87.7
165°	84.7	88.9	87.8	92.2

Tone 27 - French Tone AFNOR

Angle	Horizontal Plane		Vertical Plane	
	Min 18V	Max 30V	Min 18V	Max 30V
15°	82.8	87.2	83.8	88.1
45°	79.9	84.3	81.7	85.8
75°	84.3	88.7	85.1	89.4
105°	84.1	88.4	82.7	87.0
135°	80.5	85.0	81.7	86.0
165°	82.4	86.7	86.0	90.4

