

Product Datasheet: VSO 24 Volt 4 Tone Platform Sounder - EN 54 Approved

Description

This sounder has been fully approved to EN 54 Part 3 by the LPCB on tones 1, 3, 8 and 17.

The VSO platform sounder has been developed to provide the ideal solution for most applications. The housing has been designed to match all leading brands of smoke detectors.

The low-current 4 tone VSO benefits from improved electronic design and the use of a new, custom designed piezoelectric transducer has enabled current consumption to be reduced to as little as 4mA at 24Vdc. There is a local volume switch on each unit to allow individual sounders to be increased as necessary to suit every application. On low and medium settings the current draw is constant on warble, sweep and continuous tones ensuring that the unit can be easily adapted for use on addressable systems.

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:

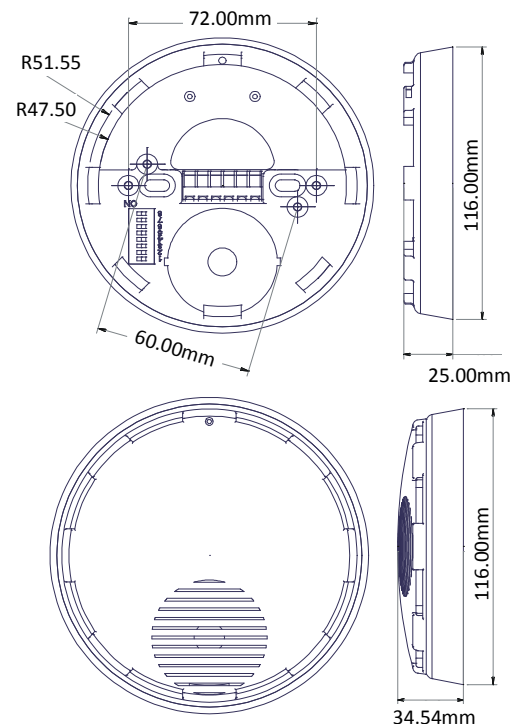
507-003 Standard White

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

Red and White Cover Plates also available.



Dimensions



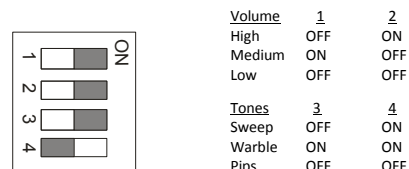
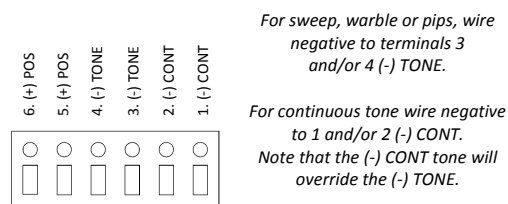
Tone Table

No.	Tone	Description	Switch	Second
1	LF Sweep (Cranford sweep)	800-1000 Hz @ 0.5 s	11111	800 Hz cont
3	Warble Tone	800-1000 Hz @ 0.5 s	11101	800 Hz cont
8	LF Continuous Tone BS 5839	800 Hz Cont	11000	Same Tone
17	Interrupted Tone	Interrupted Tone 800 Hz @ 0.5 s on/off	01111	800 Hz Cont

Technical Information

Part No.	VSO-4		
	Low	Med	High
Sound Level:	Low	Med	High
Sound Output @ 1 metre (Tone 1):	87dBa	90dBa	93dBa
Current Consumption @ 24Vdc:	≤ 4mA	≤ 6mA	≤ 9mA
Constant Current:	YES	YES	NO
Voltage Range:	12 - 30Vdc		
Number of Tones:	4		
Operating Frequency:	800Hz to 1000Hz		
IP Rating:	IP21C		
Temperature Range:	- 20°C to + 70°C		
Weight (per unit packed):	110g		

Connection



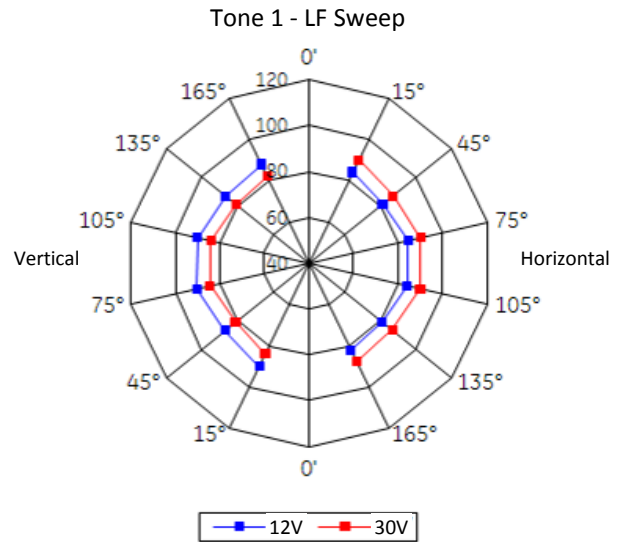
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1 | 2 Pages

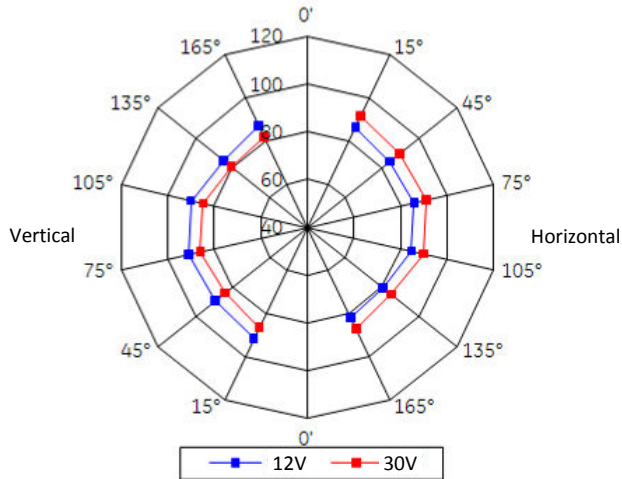
Product Datasheet: Operational Performance Data

Tone 1 - LF Sweep (Cranford Sweep)

Angle	Horizontal Plane		Vertical Plane	
	Min 12V	Max 30V	Min 12V	Max 30V
15°	84.0	89.9	84.2	90.0
45°	81.2	87.0	82.1	86.9
75°	84.5	90.3	85.0	90.9
84.1	84.1	90.0	82.3	88.2
135°	80.9	86.8	81.7	87.6
165°	82.1	87.8	86.2	92.1



Tone 3 - Warble



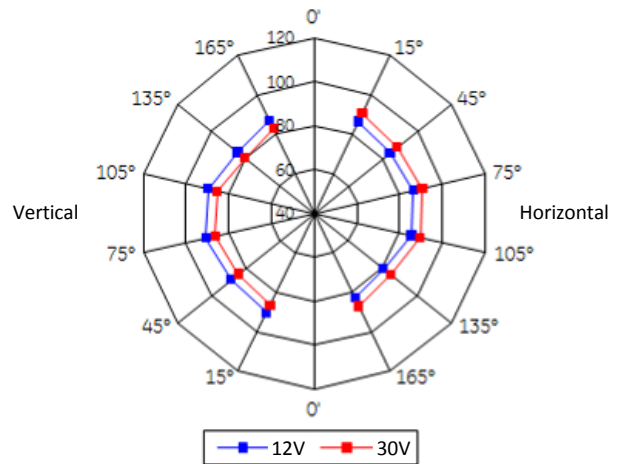
Tone 3 - Warble

Angle	Horizontal Plane		Vertical Plane	
	Min 12V	Max 30V	Min 12V	Max 30V
15°	86.6	91.7	86.0	91.5
45°	84.0	89.2	88.5	88.5
75°	85.9	91.1	86.5	91.6
105°	84.7	90.0	85.0	90.3
135°	80.6	84.9	82.9	88.1
165°	81.8	87.2	87.5	92.7

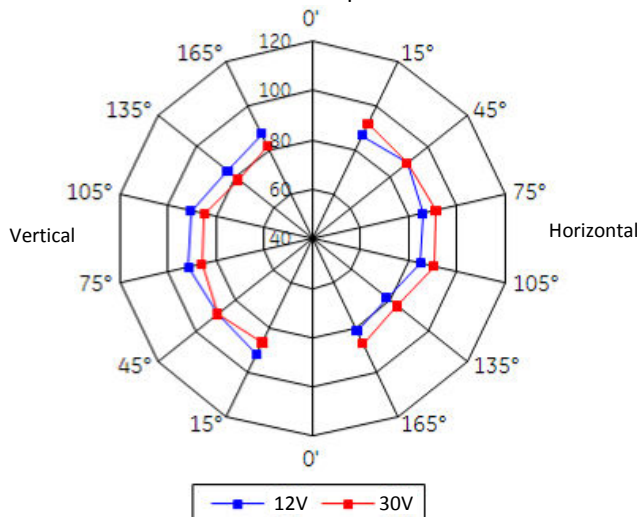
Tone 8 - LF Continuous Tone BS 5839

Tone 8 - LF Continuous Tone BS 5839

Angle	Horizontal Plane		Vertical Plane	
	Min 12V	Max 30V	Min 12V	Max 30V
15°	86.5	90.5	86.3	90.3
45°	84.3	88.5	83.7	87.7
75°	86.5	90.6	86.9	90.8
105°	85.5	89.7	85.2	89.2
135°	80.5	84.7	83.1	87.0
165°	82.8	87.0	88.0	91.9



Tone 17 - Interrupted Tone



Tone 17 - Interrupted Tone 800 Hz @ 0.5 sec on/off

Angle	Horizontal Plane		Vertical Plane	
	Min 12V	Max 30V	Min 12V	Max 30V
15°	86.6	91.9	86.1	91.6
45°	89.0	89.0	82.9	88.5
75°	85.9	91.4	86.3	91.8
105°	84.9	90.4	84.9	90.4
135°	78.3	83.9	83.3	88.7
165°	81.6	87.3	87.7	93.2