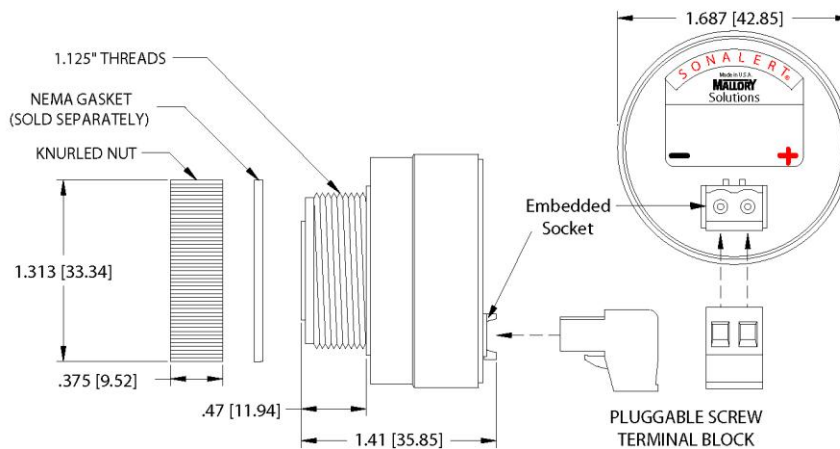


# Product APPLICATION Guide

## SCS300MDB Speaker/Housing Assembly For IEC60601-1-8 Medical Applications



### SCS300MDB\*\*

\*\* For Screw Terminal, Part Number = SCS300MDS

#### KEY FEATURES:

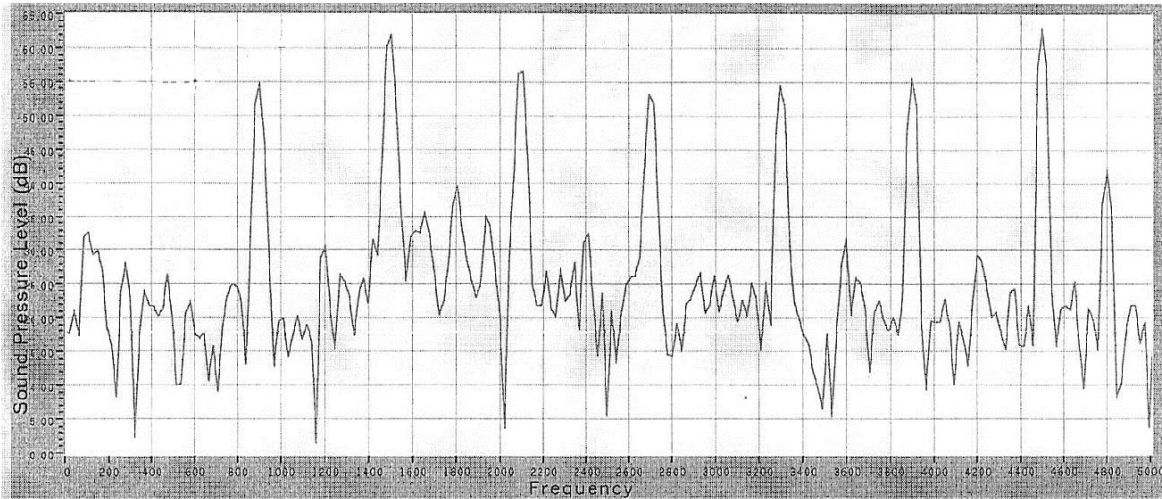
- Designed to Meet IEC 60601-1-8
- 975 Hz Fundamental Frequency
- 4 Harmonic Peaks within  $\pm 15$  dB (1 to 4 kHz)
- 85 dB @ 10 cm Typical with 325 Hz Square Wave Signal
- 8 Ohm; 0.25 Watt Mylar Speaker
- 325 Hz Square Wave Input Drive Signal Required
- Panel Mount Package
- Finger Proof Safe Termination

Continued 

# SCS300MDB Speaker/Housing Alarm (Con't)

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Frequency Response (with 325 Hz Square Wave Applied):



As shown above, the fundamental frequency is 900 Hz, and there are at least 4 harmonic peaks between 1 and 4 kHz. All harmonic peaks are within  $\pm 15$  dB of the fundamental frequency.

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## Specifications

<b>Fundamental Freq:</b>	975 $\pm$ 24 Hz.	<b>Rated Wattage:</b>	0.25 Watts
<b>No. of Harmonics:</b>	Min. of 4 (1 to 4 kHz)	<b>Max Wattage:</b>	0.50 Watts
<b>Sound Level:</b>	85 dB @ 10 cm Typical	<b>Drive Signal:</b>	325 $\pm$ 8 Hz Square Wave
<b>Storage Temp:</b>	-20 $^{\circ}$ C to +55 $^{\circ}$ C	<b>Case Material:</b>	Nylon 6/6
<b>Operating Temp:</b>	-20 $^{\circ}$ C to +55 $^{\circ}$ C	<b>Speaker Material:</b>	Mylar
<b>Speaker Impedance:</b>	8 Ohm (1 Volt; 800 Hz)		

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## SCS300MDB Notes

1. No circuitry is included with this device. The designer must supply the 325 Hz square wave drive signal. For long term life, a 2.8 Vpp square wave is the recommended voltage.
  2. Refer to IEC 60601-1-8 for the appropriate beeping rate that is required which depends on the priority of the alarm.
  3. Only one frequency (325 Hz) is needed to be applied to this device. The multiple harmonic frequencies are automatically generated acoustically.
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