



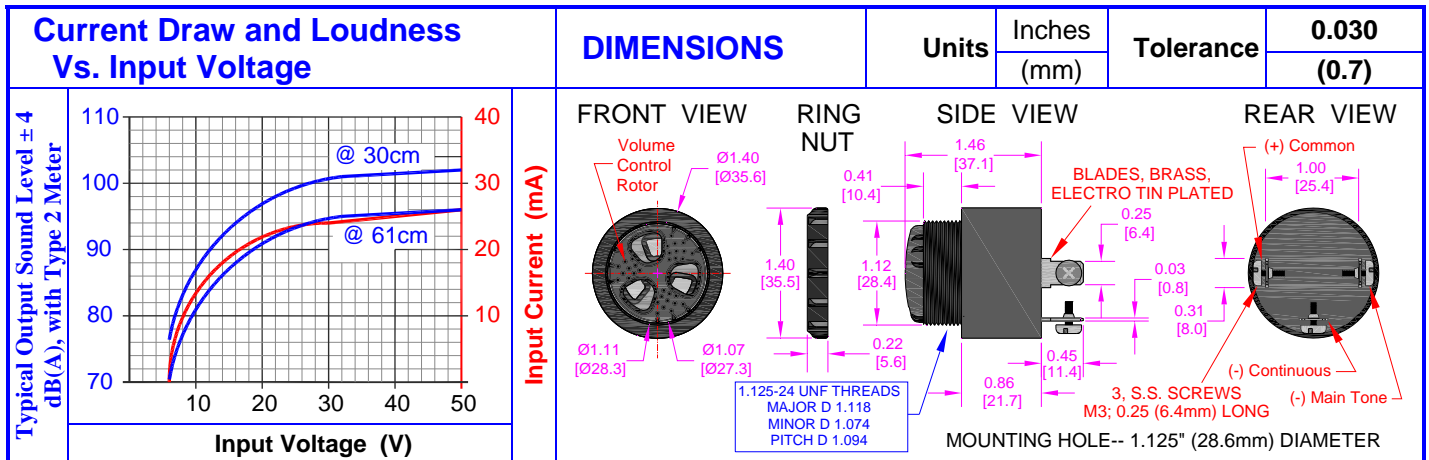
# PRODUCT INFORMATION

Part #: **CE-HCM948AVSM**

Revision: 3-2012



DESCRIPTION		FEATURES			
<p><b>Challenge Electronics Dual-Function CHIME or CONTINUOUS</b> Tones, <b>MEDIUM Loud, 9 to 48 Vdc, A</b> style case Rear Panel Mounting in 1.125" (28.6 mm) Hole, Sound Pressure Level of <b>96 dB(A)</b> at 48 Vdc at 61 cm, <b>2,900 Hz</b>. Output Frequency, <b>S</b> three 0.25" (6.4 mm) Blades with M3 0.25" (6.4 mm) long Stainless Steel Screws termination, <b>Moderate Rate 2</b> pulses per second, Piezoelectric Alarm with a mechanical <b>Volume Control, RoHS Compliant</b></p>		<ul style="list-style-type: none"> <li>◆ <b>Reliable Solid State Piezoelectric Technology</b></li> <li>◆ <b>Corrosion resistant Stainless Steel Diaphragm</b></li> <li>◆ <b>Flame Retardant Plastic</b></li> <li>◆ <b>Extended storage temperature</b></li> <li>◆ <b>Hermetically Sealed Alarm</b></li> <li>◆ <b>Water Proof, NEMA 3R, 4X, or 12 with Gasket (not supplied)</b></li> <li>◆ <b>RoHS, Lead Free Compliance</b></li> <li>◆ <b>ISO 9001 Certified</b></li> </ul>			
<b>SPECIFICATIONS</b>					
Operating Mode	Medium Loud, Moderate Chime or Continuous Tones		Pulse Rate	2 ± 10% Pulses per Second	
Operating Voltage	9 to 48 Vdc		Nominal Operating Voltage	36 Vdc	
Operating Frequency	2,900 ± 250 Hz.				
Typical Loudness	At Minimum Voltage	80 ± 5 dB(A), at 9 Vdc, 24 inches (61 cm), 25°C			
	At Maximum Voltage	96 ± 3 dB(A), at 48 Vdc, 24 inches (61 cm), 25°C			
Volume Control	<p>Maximum Sound Pressure Level can be restricted up to 20 dB from maximum output. (Note, The Volume Control Rotor may reduce maximum loudness)            To install, simply, push the ROTOR onto the front of alarm until it snapped in place            To attenuate sound, while alarm is turned on, rotate the ROTOR until maximum desired sound is achieved</p>				
Typical Operating Current	At Minimum Voltage	10 mA at 9 Vdc	At Maximum Voltage	30 mA at 48 Vdc	
Operating Temperature	-30°C to +65°C		Storage Temperature	-40°C to +105°C	
Surge Voltage	20% over maximum Operating Voltage for less than 5 minutes				
Materials	Alarm Case	Plastic, "A" Case, NORYL™, PX9406 or equal, flame retardant UL 94-V0, Black			
	Diaphragm	Stainless Steel 304			
	Encapsulation	Two parts epoxy resign or silicone potting, Black			
	Termination	Three, 0.25 (6.4 mm) Quick Connect Blades, 0.032Ø (0.8Ø mm) Wide, Brass, Electro-Tin plated With M3 0.25" (6.4 mm) long Stainless Steel Screws.			
Physical Dimensions	Length or Diameter (L / D)	1.46" (37.1 mm) Ø	Width (W)	Height (H)	1.46" (37.1 mm)
Approximate Weight	43 grams	Removable Washing Label	No	Compliance	RoHS
Available Options					
<b>RELIABILITY</b>					
Thermal Operating Temperature Test	240 hours continuous operation at Rated Power, at Maximum Rated Operating Temperature *				
Thermal Storage Temperature Test	240 hours continuous operation at Rated Power, at Minimum Rated Operating Temperature *				
Thermal Shock Test	96 hours storage at Maximum Rated Storage Temperatures *				
	96 hours storage at Minimum Rated Storage Temperatures *				
Thermal Shock Test	<p>5 cycles of Minimum and Maximum Operating Temperature            Each cycle shall be set per diagram below and is 3 hours long *</p>				
Humidity Test	120 Hours at +60°C±2°C. 90-95% RH *				
Salt Spray	Withstand exposure to salt spray per ASTM B117 for a period of 300 hours *				
Water & Dust Exposure	Withstands water submergence and dust exposure per IP-68 *				
Vibration Test	2 Hours at 1.5 mm with 10 to 55 Hz. of vibration frequency to each of 3 perpendicular direction *				
Drop Test	Dropped naturally from 1 meter height onto the surface of 10mm wooden board, 2 directions upper and side of the part are applied *				
Termination Strength	Maximum of 15 pounds (6.8 Kg) load pull test and of 4 lb. per inch driving torque on screw				
* Reliability Test Performance	Parts should conform to original performance within ±3dB, after 3 hours of recovery and dry period				
Life Test	Intermittent	1,000 hours of a 1 minute on 4 minutes off cycle at room temperature and maximum rated voltage			
	Continuous	250 hours continuous operation at maximum rated Voltage and maximum Operating Temperatures			
Warranty	For a period of one (1) year from date of shipping under normal operations conditions This warranty does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to repair				



### PACKAGING

**ONE TRAY:**

**TWO BUNDLE**

**ONE BUNDLE:**

**SHIPPING BOX**

MODEL	
QTY	PCS
N.W	KG
G.W	KG
SIZE	
LOT NO	

MARKING	TRAY	
<b>Bundle</b>	Dimensions	<b>X1</b> 34.7 cm
Customer PN		<b>Y1</b> 34.7 cm
Other PN if required		<b>Z1</b> 21.2 cm
Quantity	Quantity	<b>42</b>
Lot and/or Date Code	BUNDLE	
Bundle Number	Dimensions	<b>X2</b> cm
<b>Shipping Box</b>		<b>Y2</b> cm
Customer Part Number		<b>Z2</b> cm
Other PN (if required)	Quantity	
Quantity	SHIPPING BOX	
Lot and/or Date Code	Dimensions	<b>X3</b> 35 cm
PO Number		<b>Y3</b> 35 cm
Net Weight		<b>Z3</b> 22.5 cm
Gross Weighjt	Number of Bundles	<b>1</b>
Box Number	Quantity	<b>250</b>
of Number of Boxes	Approximate Weight	<b>12 Kg.</b>
<b>Made in China</b>		

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