



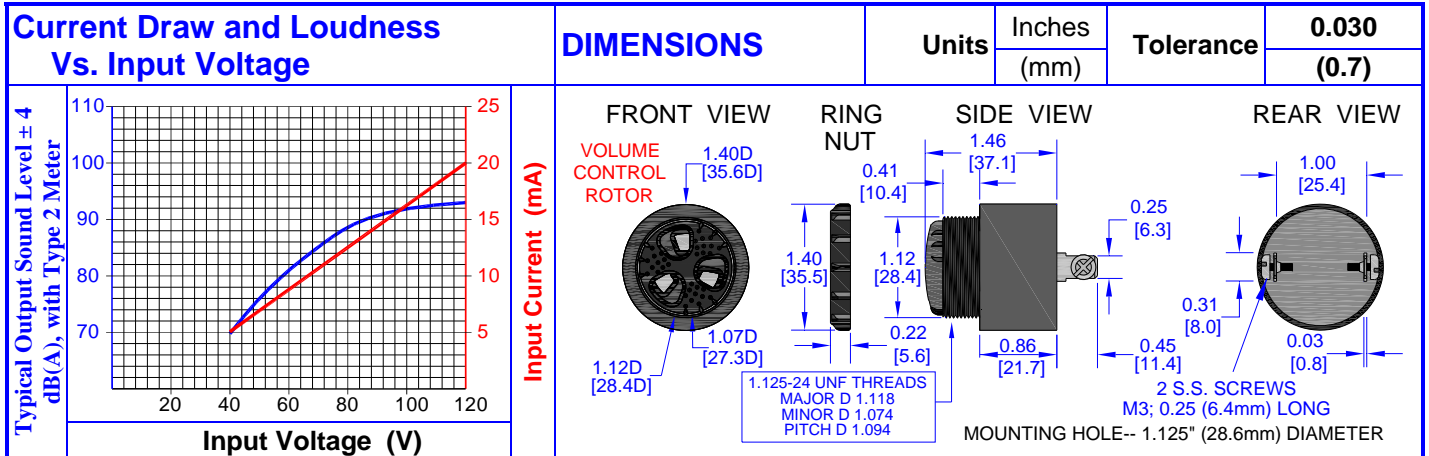
# PRODUCT INFORMATION

**Part #: CE-CM201AVS**

**Revision: 3-2013**



DESCRIPTION		FEATURES			
<b>Challenge Electronics CONTINUOUS Tone, MEDIUM Loud, 40 to 120 Vac, A style back panel mounted case, Sound Pressure Level of 93 dB(A) at 117 Vac at 61 cm, 2,900 Hz. Output Frequency, S two 0.25" (6.4 mm) Blades with M3 0.25" (6.4 mm) long Stainless Steel Screws termination, Piezoelectric Alarm, RoHS Compliant</b>		<ul style="list-style-type: none"> <li>◆ Reliable Solid State Piezoelectric Technology</li> <li>◆ Corrosion resistant Stainless Steel Diaphragm</li> <li>◆ Flame Retardant Plastic</li> <li>◆ Extended storage temperature</li> <li>◆ Hermetically Sealed Alarm</li> <li>◆ Water Proof, NEMA 3R, 4X, or 12 with Gasket (not supplied)</li> <li>◆ RoHS</li> <li>◆ ISO 9001 Certified</li> </ul>			
SPECIFICATIONS					
Operating Mode	Medium Loud, Continuous Tones		Pulse Rate		
Operating Voltage	40 to 120 Vac		Nominal Operating Voltage		117 Vac
Operating Frequency	2,900 ± 500 Hz.				
Typical Loudness	At Minimum Voltage	70 ± 5 dB(A), at 40 Vac, 24 inches (61 cm), 25°C			
	At Maximum Voltage	93 ± 3 dB(A), at 117 Vac, 24 inches (61 cm), 25°C			
Volume Control	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				
Typical Operating Current	At Minimum Voltage	10 mA at 40 Vac	At Maximum Voltage	25 mA at 117 Vac	
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 resin or silicone potting, Black			
	Termination	Two, 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)	1.4" (35.6 mm) Ø	Width (W)	Height (H)	1.4" (35.7 mm)
Approximate Weight	39 grams	Removable Washing Label	No	Compliance	RoHS
Available Options					
RELIABILITY					
Thermal Operating Temperature Test	240 hours continuous operation at Rated Power, at Maximum Rated Operating Temperature *				
	240 hours continuous operation at Rated Power, at Minimum Rated Operating Temperature *				
Thermal Storage Temperature Test	96 hours storage at Maximum Rated Storage Temperatures *				
	96 hours storage at Minimum Rated Storage Temperatures *				
Thermal Shock Test	5 cycles of Minimum and Maximum Operating Temperature Each cycle shall be set per diagram below and is 3 hours long *				
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		MARKING	TRAY	
<b>ONE TRAY:</b>	<b>TWO BUNDLE</b>	<b>Bundle</b>	Dimensions	<b>X1</b> 34.7 cm
		Part Number		<b>Y1</b> 34.7 cm
<b>ONE BUNDLE:</b>		Other PN if required		<b>Z1</b> 21.2 cm
	<b>SHIPPING BOX</b>	Quantity	Quantity	<b>42</b>
<b>TOP COVER</b>		Lot and/or Date Code	<b>BUNDLE</b>	
	ITEM: C/NO: MADE IN CHINA	Bundle Number	<b>X2</b>	cm
		<b>Shipping Box</b>	Dimensions	<b>Y2</b> cm
		Part Number		<b>Z2</b> cm
		Other PN (if required)		Quantity
		Quantity	<b>SHIPPING BOX</b>	
		Lot and/or Date Code	<b>X3</b>	35 cm
		PO Number	Dimensions	<b>Y3</b> 35 cm
		Net Weight		<b>Z3</b> 22.5 cm
		Gross Weight		Number of Bundles
		Box Number of Boxes	Quantity	<b>250</b>
		<b>Made in China</b>	Approximate Weight	<b>9 Kg.</b>

Revision	Description	By	Date
3-2013	Changed SPL and Frequency Response	Ely Zofan	8/1/2013