



# PRODUCT INFORMATION

**Part #: CE-HM201ASM**

Revision: 4-2014

DESCRIPTION		FEATURES			
<p><b>Challenge Electronics CHIME Tone, MEDIUM Loud; 40 to 120 Vac; A style case Rear Panel Mounting in 1.125" (28.6 mm) Hole; Sound Pressure Level of 94 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; Moderate Rate 2 pulses per second; Piezoelectric Alarm; RoHS Compliant</b></p>		<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, Lead Free Compliance</li> <li>◆ ISO 9001:2008 &amp; ISO-TS 16949:2009 Certified</li> </ul>			
<b>SPECIFICATIONS</b>					
Operating Mode	Medium Loud, Moderate Chime Tone				
Operating Voltage	40 to 120 Vac			Nominal Operating Voltage	117 Vac
Typical Loudness	At 40 Vac			70 ± 5 dB(A)	
	At 117 Vac			94 ± 3 dB(A)	
SPL is measured at 24" (61 cm), 25°C, Sound Level meter # 2240, Type 2, Fast Response, A-Weighted					
Typical Operating Current	5 mA at 40 Vac			30 mA at 117 Vac	
Operating Temperature	-30°C to +65°C			Storage Temperature	-40°C to +100°C
Surge Voltage	20% over maximum Operating Voltage for less than 5 minutes				
Polarity Protection	Protected against Reversed Voltage to the Maximum Operating Voltage				
Materials	Alarm Case			Plastic, "A" Case, NORYL™, PX9406 or equal, flame retardant UL 94-V0, Black	
	Diaphragm			Stainless Steel 304	
	Encapsulation			Silicon Potting covering SMD components topped with 2 parts epoxy 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)	1.46" (37.1 mm) Ø	Width (W)		
Panel Mounting	From the Rear with Plastic Ring Nut	Mounting Hole	1.125" (28.6mm) Ø		
Approximate Weight	35 grams	Rotor Volume Control	No		
Available Options	Rotor Volume Control, Water Proof Gasket, Mounting Bracket, and variety of connectors terminated on the Wire Lead ends				
<b>RELIABILITY</b>					
Thermal Operating Temperature Test	96 hours continuous operation at Rated Voltage, at Maximum Rated Operating Temperature *				
Thermal Storage Temperature Test	96 hours storage at Maximum 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 room temperature and maximum rated Voltage			
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				



Current Draw and Loudness Vs. Input Voltage		DIMENSIONS		Units	Inches (mm)	Tolerance	0.030 (0.7)																																																								
Typical Output Sound Level $\pm 4$ dB(A), with Type 2 Meter 	Input Current (mA)	<b>FRONT VIEW</b> 	<b>RING NUT</b> 	<b>SIDE VIEW</b> 	<b>REAR VIEW</b> 	BLADES, BRASS, ELECTRO TIN PLATED 2 S.S. SCREWS M3; 0.25 (6.4mm) LONG MOUNTING HOLE-- 1.125" (28.6mm) DIAMETER																																																									
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3-2012	Modified Dimensions Drawing			Ely Zofan	12/17/2012																																																										
4-2014	Updated Specifications			Ely Zofan	6/18/2014																																																										