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Revision: 4-2015

DESCRIPTION Challenge Electronics **Dual-Function BEEPING** or CONTINUOUS Tones, EXTRA Loud, 5 to 15 Vdc, A style case Corrosion resistant Stainless Steel Diaphragm Level of 103 dB(A) at 15 Vdc at 61 cm, 2,900 Hz. Output Frequency, three Quick Connect Blades termination, Slow Rate 1 pulse per second, Piezoelectric Alarm with a mechanical

♦ Reliable Solid State Piezoelectric Technology

FEATURES

- **Extended storage temperature**
- Hermetically Sealed Alarm
- Water Proof, NEMA 3R, 4X, or 12 with Gasket

	ontrol, RoHS (Compliant (not supplied)		
	ICATIONS	♦ RoHS, Lead Free Compliance		
		, 100 000 100 100 100 100 100 100 100 10		
Operating Mode				
Operating Voltage		5 to 15 Vdc Nominal Operating Voltage 12 Vdc Operating Frequency 2,900 ± 500 Hz.		
Typical Loudness SP		At 5 Vdc 90 ± 5 dB(A) At 12 Vdc 102 ± 3 dB(A) At 15 Vdc 103 ± 3 dB(A)		
		SPL is measured at 30 cm, 25°C, Sound Level meter # 2240, Type 2, Fast Response, A-Weighted		
Typical Operating Current		10 mA at 5 Vdc 35 mA at 12 Vdc 40 mA at 15 Vdc		
Volume Control Ro		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		
Operating Temperature -3		-30°C to +65°C Storage Temperature -40°C to +100°C		
Surge Voltage 2		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		
Materials	Encapsulation	Silicon Potting covering SMD components topped with 2 parts epoxy potting, Black		
	Termination	Three, 0.25 (6.4 mm) Quick Disconnect Blades, 0.032Ø (0.8Ø mm) wide, Brass, Electro-Tin plated		
Physical Dim	ensions	Length or Diameter (L /D) 1.46" (37.1 mm) Ø Width (W) Height (H) 1.46" (37.1 mm)		
Approximate Weight		41 grams With Volume Control Rotor Yes Compliance RoHS		
Available Op	otions	Water Proof Gasket, Mounting Bracket, and variety of connectors terminated on the Wire Lead ends		
RELIAB	ILITY			
Thermal Operating		96 hours continuous operation at Rated Power, at Maximum Rated Operating Temperature *		
Temperature Test		96 hours continuous operation at Rated Power, at Minimum Rated Operating Temperature *		
Thermal Storage Temperature		1re 96 hours storage at Maximum Rated Storage Temperatures *		
Test		96 hours storage at Minimum Rated Storage Temperatures *		
Thermal Shock Test		5 cycles of Minimum and Maximum Operating Temperature Each cycle shell be set per diagram below and is 3 hours long * SINGLE CYCLE SINGLE CYCLE SINGLE CYCLE SINGLE CYCLE SINGLE CYCLE		
Humidity Test		120 Hours at +60°C±2°C, 90-95% RH *		
Salt Spray		Withstand 300 hours of exposure to salt spray per ASTM B117 *		
Water & Dust Exposure		Withstands 50 cm of 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 10 mm 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				
Life Test		ttent 1,000 hours of a 1 minute on 4 minutes off cycle at room temperature and maximum rated Voltage		
		uous 250 hours continuous operation at room temperature and maximum rated Voltage		
Warranty	•	f two (2) years from date of shipping under normal operations conditions does not apply to products damaged through misuse, abuse, improper installation, alteration, rework, or attempt to repa		

Current Draw and Loudness 0.030 Inches **DIMENSIONS Units Tolerance** Vs. Input Voltage (mm) (0.7)SIDE VIEW FRONT VIEW **RING** REAR VIEW **Typical Output Sound Level ± 4** NUT Volume (+) Common dB(A), with Type 2 Meter Control (mA) Rotor [3.9] Current Input ((-) Continuous 1.125-24 UNF THREADS (-) Main Tone Blades: Brass MAJOR D 1.118 MINOR D 1.074 PITCH D 1.094 Electro Tin Plated MOUNTING HOLE-- 1.125" (28.6 mm) Diameter Input Voltage (V) ALARM MAKING RECOMMENDED MOUNTING HOLE Part Number Ring Gasket Mounting Alarm **Sound Type** Nut Panel Optinal Side View On side Case: Operating Voltage Range / Date Code **Challenge Electronics** Made in China Polarity (when Required) On Back: 1.125-24 UNF Threads, 2A Class Alarm Threads: Major 1.118" Ø, Minor 1.063" Ø , Pitch 1.094" Ø 1.125-24 UNF Threads, 2B Class Ring Nut Threads: Major 1.120" Ø, Minor 1.073" Ø, Pitch 1.094" Ø Mounting Hole: 1.25" (31.75 mm) Ø) Panel Thickness: 0.03 (0.75 mm) to 0.25" (6.4 mm) Gasket (Optional): 1.25" (31.75 mm) ID, 1.40" (35.6 mm) OD, for Water Proofing 0.10" (2.54 mm) Thick Rubber, **PACKAGING Shipping Box MARKING** TRAY Tray Part Number 34.7 cm 1 Other PN (if required) 34.7 cm **Dimensions** W Lot and/or Date Code 21.2 cm Н Quantity Quantity 47 PO Number SHIPPING BOX Я J Net Weight L 35 cm Gross Weighjt W 35 cm **Dimensions** Shipping Box Number of Boxes 22.5 cm PN Qty N.W Box Made in China **Number of Trays** 5 G.W Quantity 250 Approximate Weight 9 Kg. Description Date Revision By 1-2007 **Updated Specifications** Ely Zofan 1/30/2007 2-2010 9/21/2010 Changed formate Ely Zofan 3-2012 Modified the Sound Pressure Specifications Ely Zofan 5/14/2012 4-2015 **Added Polarity Protection Specification** Ely Zofan 1/8/2015