

**Mallory Sonalert Products, Inc.**

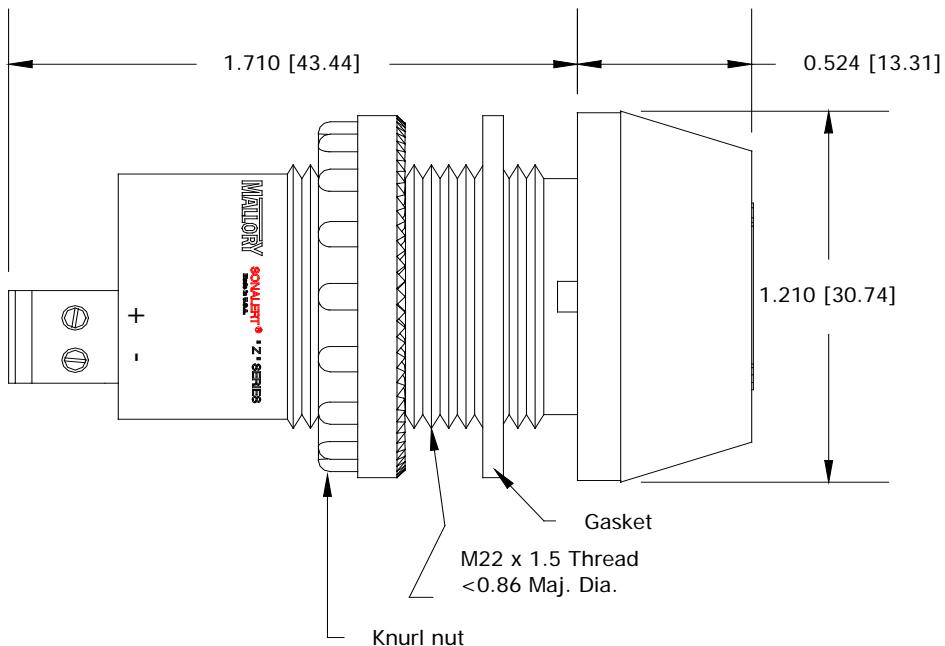
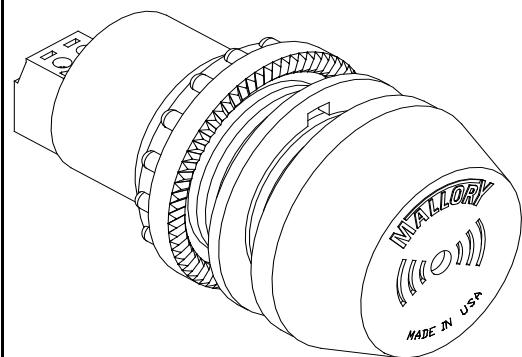
Part #:

**ZA048MADP3****Sales Outline Drawing**

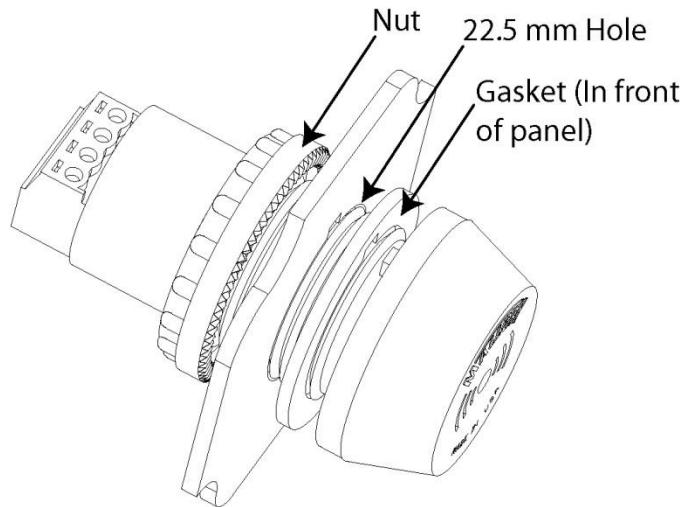
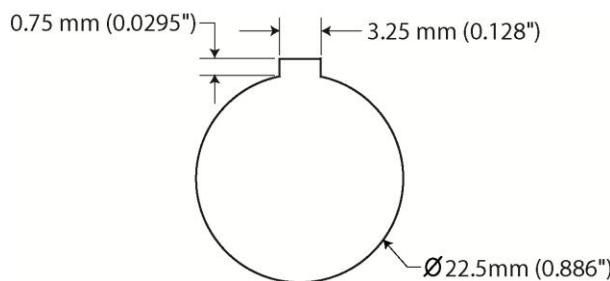
Revision:

**C****Specifications:**

Sound Level Category	Medium
Mode of Operation	Slow Double Pulse @ 0.5 PPS
Voltage Rating	28 to 48 VAC/DC
Frequency	3300 ± 500 Hz
Loudness @ 2 FT	75 to 85 dB(A) Typ.
Current Draw	40mA MAX
Housing Material	6/6 Nylon, Color: Black
Storage Temperature	-40° to +55° C
Operating Temperature	-30° to +50° C
Panel Mounting	Recommended hole size is 22.5 mm. Thread front will fit standard 22.5mm hole.
Knurled Nut	Used to attach part to panel. The max recommended torque is 10 in-lbs.
Weight (Typical)	28 g
NEMA 3R,4X, & 12	Approved with use of included gasket.
cUL Recognition	Supply voltage shall employ Transient Voltage Surge Suppression.
Options	Please contact factory.

**Dimensions:** Inches (mm)**cUL Recognized****ROHS Compliant**

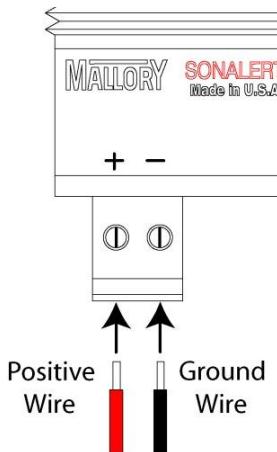
### Mounting Instructions:



### Panel Hole Cut Out

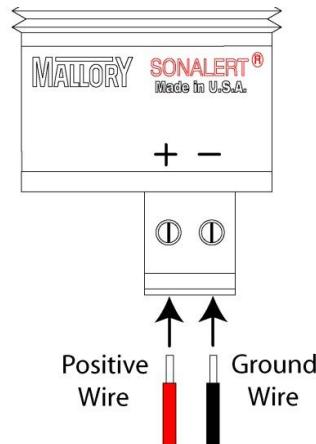
- **Panel Hole Size:** 22.5 mm with Keyway
- **Maximum Panel Thickness:** 12.7 mm (0.5 in)
- **Maximum Nut Torque:** 10 in-lbs (1.13 n-m)

### Electrical Connection:



**DC  
ONLY**

**AC/DC**



- **Wire Strip Length:** 6.5 mm (0.256 in)
- **Wire Size:** 30 to 16 AWG
- **Maximum Screw Torque:** 2 in-lbs (0.226 n-m)

**Certifications:**

- RoHS; cUL; NEMA 3R/4X/12; IP-66; CSA 22.2 No. 94
  - Included gasket must be used to maintain NEMA 3R/4X/12 ratings.

**cUL Yellow Card:****UL Online Certifications Directory***UCST8.S1290**Audible Signal Appliances, General Signal Certified for Canada - Component***Audible-signal Appliances, General Signal Certified for Canada - Component**

MALLORY SONALERT PRODUCTS INC

S1290

4411 S HIGH SCHOOL RD

INDIANAPOLIS, IN 46241 USA

**Audible tone generators, ZA aaa b c ddd (f9)**

(f9) - Must be used with neoprene gasket type 4216-S to maintain enclosure NEMA Type Ratings 3R, 4X and 12.

aaa - Indicates voltage rating. May be 016, 028, 048 or 120.

b - Indicates sound level. May be L, M or S.

c - Indicates voltage type. May be A or D.

ddd - Indicates Sound Function. May be any combination of letters A through Z and/or numbers 0 through 9.

Marking: Company name or trademark "Mallory" , "Sonalert" , model designation and Recognized Component Mark for Canada, Last Updated on 2012-02-03

**Sound Level vs Distance:**

Various Measurement Distances	ZA Series Sound Level Category		
	Loud <b>85 – 95 dB @ 2 ft</b>	Medium <b>75 – 85 dB @ 2 ft</b>	Soft <b>65 – 85 dB @ 2 ft</b>
<b>10 cm (4 in)</b>	100 to 110 dB	90 to 100 dB	80 to 90 dB
<b>30 cm (1 ft)</b>	91 to 101 dB	81 to 91 dB	71 to 81 dB
<b>1 Meter</b>	82 to 92 dB	72 to 82 dB	62 to 72 dB
<b>10 ft</b>	71 to 81 dB	61 to 71 dB	51 to 61 dB

The ZA Series of 22mm alarms measures sound level at 2 feet. Since sound level drops over distance, the above chart lists the equivalent sound levels at various distances.

For example, if the Mallory part is in the **LOUD** sound level category, it has a sound level of 85 to 95 dB at 2 feet. At 10 cm, the sound level would measure 100 to 110 dB.

**Packaging:**

- Standard orders are bulk packed.
- For individual box packaging, add one of the following part numbers to order:

Part Number	Description
BOX	Individual box- no label
BOXLABEL	Individual box with label

**Accessories:**

Part Number	Description	Notes
ACC06	Replacement NEMA Gasket	Gasket comes with part
BOX	Individual box- no label	Must be ordered with part
BOXLABEL	Individual box with label	Must be ordered with part
KNT1-01	Replacement Nut	Nut comes with part