

**Mallory Sonalert Products, Inc.**

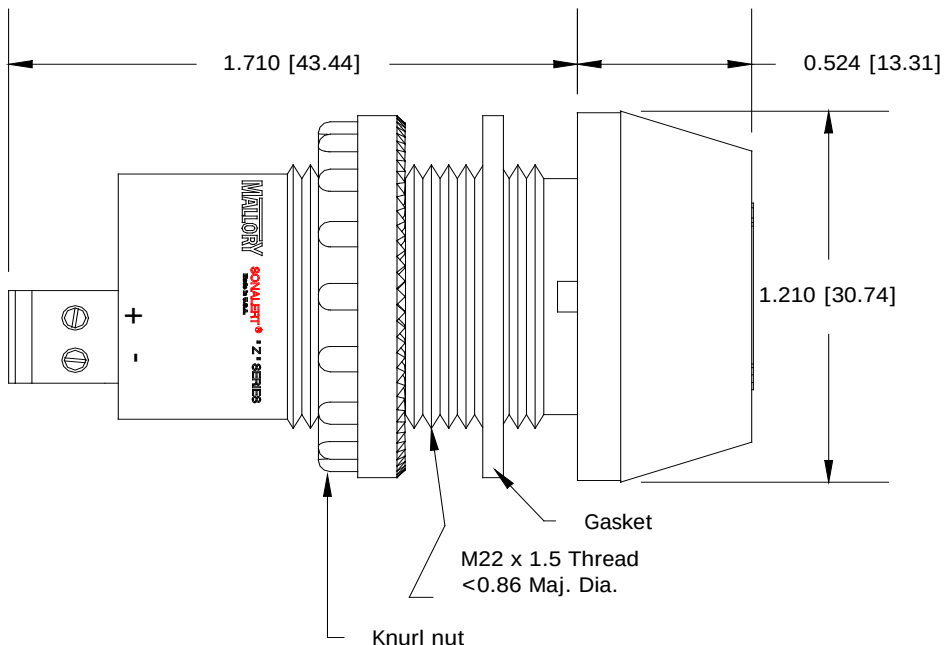
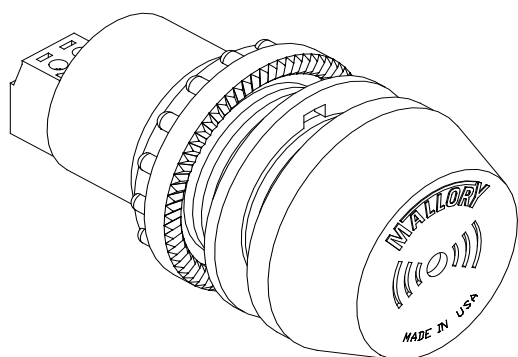
Part #:

**ZA048MADL1****Sales Outline Drawing**

Revision:

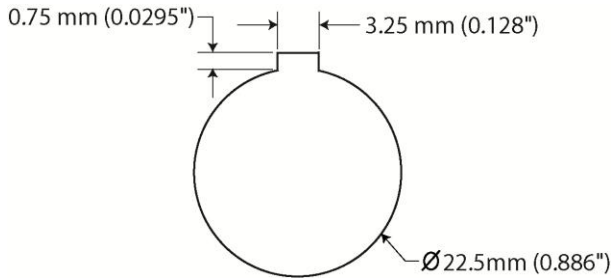
**A****Specifications:**

|                       |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| Sound Level Category  | Medium                                                                        |
| Mode of Operation     | 10 Sec On-Delay Continuous                                                    |
| Voltage Rating        | 28 to 48 VAC/DC                                                               |
| Frequency             | 3300 $\pm$ 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.                                                       |

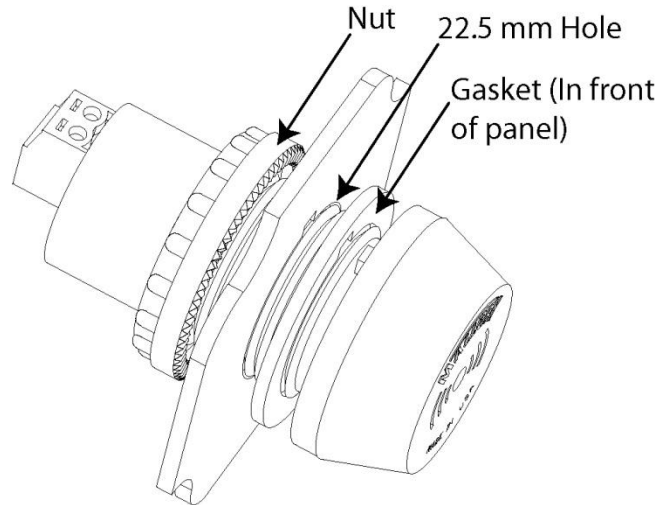
**Dimensions:** Inches (mm)**cUL Recognized****ROHS Compliant**

## ZA Series- 22mm Panel Alarms

### Mounting Instructions:

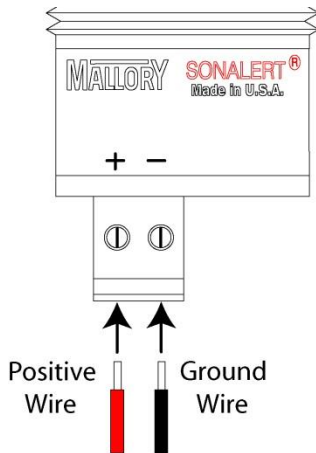


### Panel Hole Cut Out



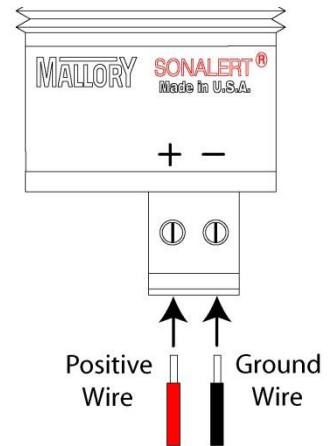
- **Panel Hole Size:** 22.5 mm with Keyway
- **Maximum Panel Thickness:** 12.7 mm (0.5 in)
- **Maximum Nut Torque:** 10 in-lbs (1.13 n-m)

### 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.
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### 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 tradename "Mallory" , "Sonalert" , model designation and Recognized Component Mark for Canada, .

Last Updated on 2012-02-03

## ZA Series- 22mm Panel Alarms

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### Sound Level vs Distance:

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

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### 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 |

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### Accessories & Replacement Parts:

| Part Number | Description             | Notes                  |
|-------------|-------------------------|------------------------|
| ACC06       | Replacement NEMA Gasket | Gasket comes with part |
| KNT1-01     | Replacement Nut         | Nut comes with part    |