

**Mallory Sonalert Products, Inc.**

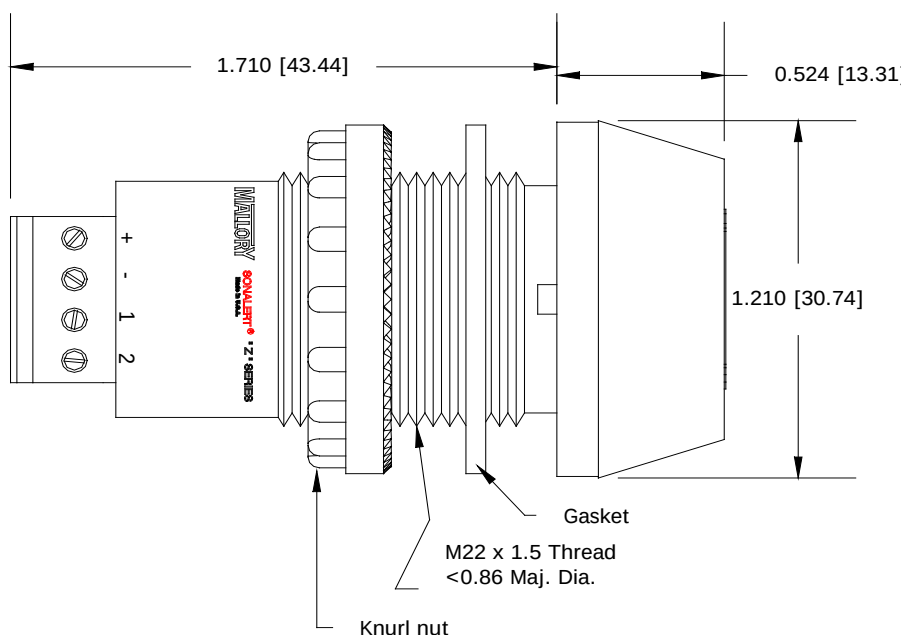
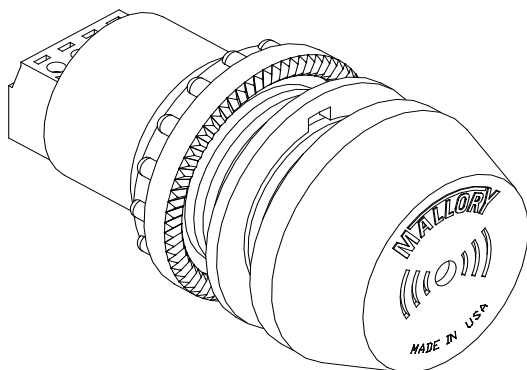
Part #:

**ZA028SDMT5****Sales Outline Drawing**

Revision:

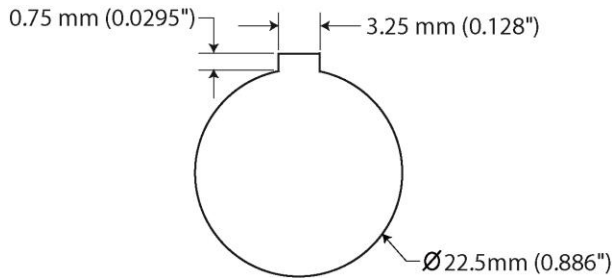
**B****Specifications:**

|                        |                                                                               |                                        |                                        |                                             |
|------------------------|-------------------------------------------------------------------------------|----------------------------------------|----------------------------------------|---------------------------------------------|
| Sound Level Category:  | Soft                                                                          | Soft                                   | Soft                                   | Soft                                        |
| Mode of Operation:     | Continuous                                                                    | Slow Pulse @ 1 PPS                     | Fast Pulse @ 10 PPS                    | Dual Tone 3.4 - 3.5 kHz @ 7 WPS             |
| Loudness @ 2 FT:       | 65 to 75 dB(A) Typ.                                                           | 85 to 95 dB(A) Typ.                    | 85 to 95 dB(A) Typ.                    | 85 to 95 dB(A) Typ.                         |
| Pulse Rate (PPS):      |                                                                               | 1                                      | 10                                     | 7                                           |
| Frequency:             | 3300 ± 500 Hz                                                                 | 3300 ± 500 Hz                          | 3300 ± 500 Hz                          | 3450 ± 100 Hz                               |
| Connection:            | "+" to Positive, "-" to Ground                                                | "+" to Positive, "-" and "1" to Ground | "+" to Positive, "-" and "2" to Ground | "+" to Positive, "-", "1" and "2" to Ground |
| Voltage Rating:        | 16 to 28 VDC                                                                  |                                        |                                        |                                             |
| 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 ACC03.                                                   |                                        |                                        |                                             |
| Options:               | Please contact factory.                                                       |                                        |                                        |                                             |

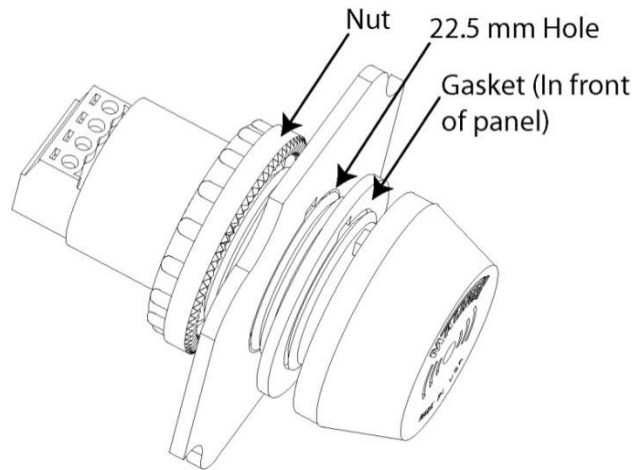
**Dimensions:** Inches (mm)**cUL Recognized****ROHS Compliant**

## ZA Series- 22mm Panel Alarms

### Mounting Instructions:

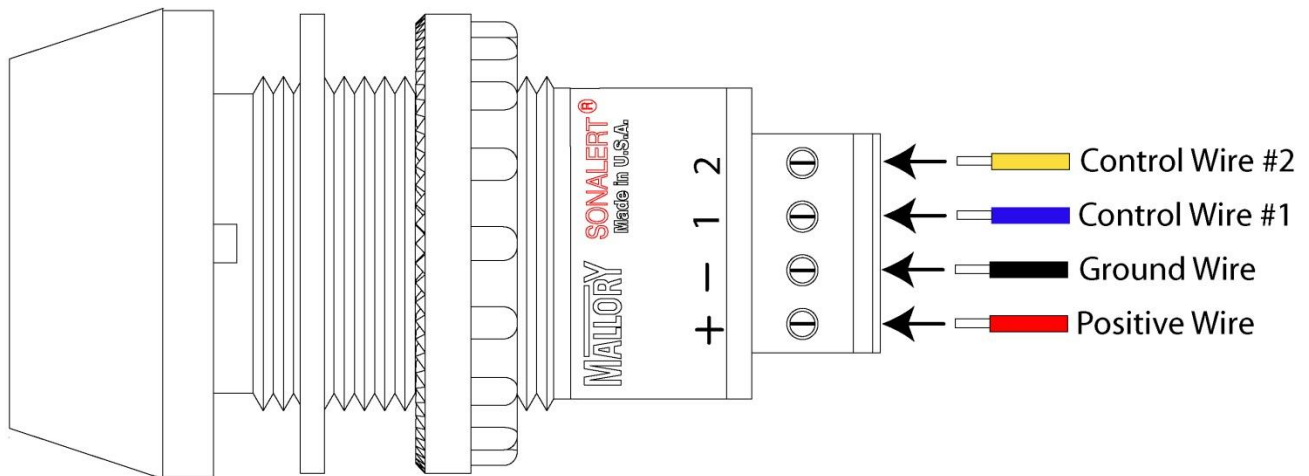


### Panel Hole Cut Out



- **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)

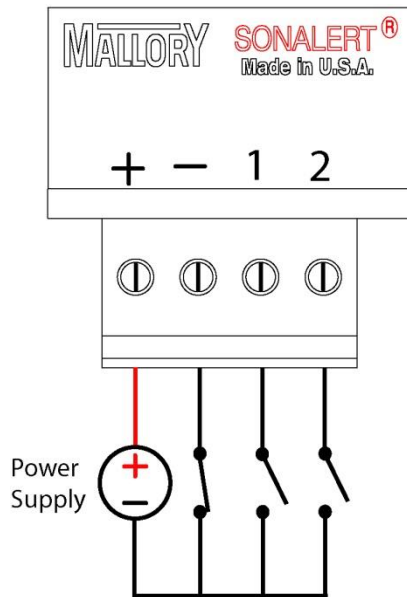
### Terminal Block Connections:



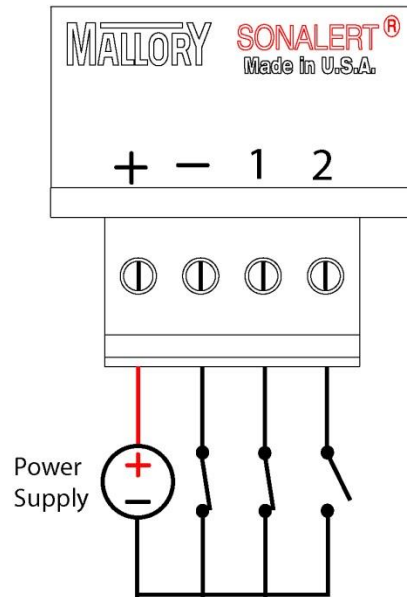
- **Wire Strip Length:** 6.5 mm (0.256 in)
- **Wire Size:** 30 to 16 AWG
- **Maximum Screw Torque:** 2 in-lbs (0.226 n-m)

## ZA Series- 22mm Panel Alarms

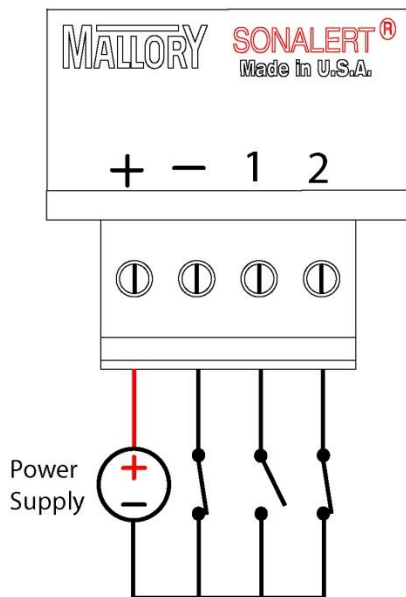
### Wiring Diagrams:



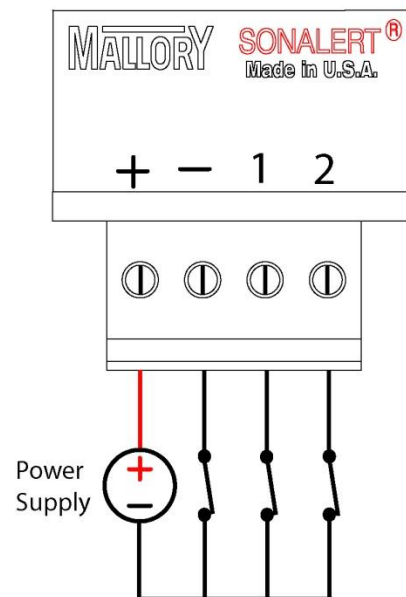
**Sound #1:** Connect "+" to POSITIVE, and Connect "-" to GROUND.



**Sound #2:** Connect "+" to POSITIVE, and Connect "-" & "1" to GROUND.



**Sound #3:** Connect "+" to POSITIVE, and Connect "-" & "2" to GROUND.



**Sound #4:** Connect "+" to POSITIVE, and Connect "-" & "1" & "2" to GROUND.

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

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## ZA Series- 22mm Panel Alarms

### 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.

### 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 & Replacement Parts:

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