

- 25 Watt Loudspeaker
- 70V or 100V Line Transformer with 25W, 12.5W, 6W and 2W tapings
- 8 ohm or 16 ohm
- Type UL 4/4X/13
- Operating Temperature Range -20°C to +55°C



**Unit Type No.** E2xL25UL

**Impedance:** 8 ohm or 16 ohm  
70V Line or 100V Line

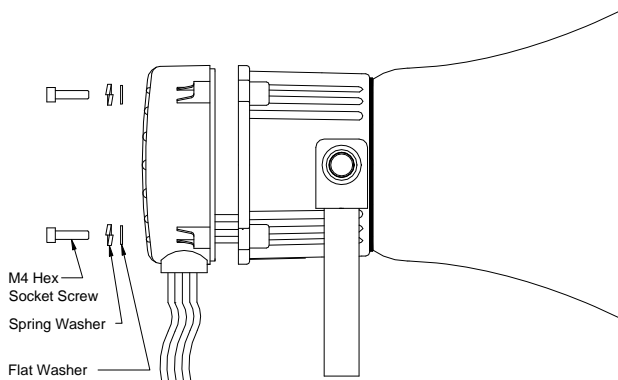
| Max. Operating Temperature / Code at +40° Ambient |                  |
|---------------------------------------------------|------------------|
| Hazardous Location                                | Temperature Code |
| Class I, Division 2, Groups A, B, C, D            | T2D (215°C)      |
| Class II, Division 2, Groups F and G              | T6 (85°C)        |

| Max. Operating Temperature / Code at +55° Ambient |                  |
|---------------------------------------------------|------------------|
| Hazardous Location                                | Temperature Code |
| Class I, Division 2, Groups A, B, C, D            | T2C (230°C)      |
| Class II, Division 2, Groups F and G              | T5 (100°C)       |

The equipment is suitable for use in the hazardous locations listed above or non-hazardous locations only.

### PRE-INSTALLATION

**WARNING** – The E2xL25UL loudspeakers are supplied with flying leads so it should not be necessary to open the unit before it is installed.

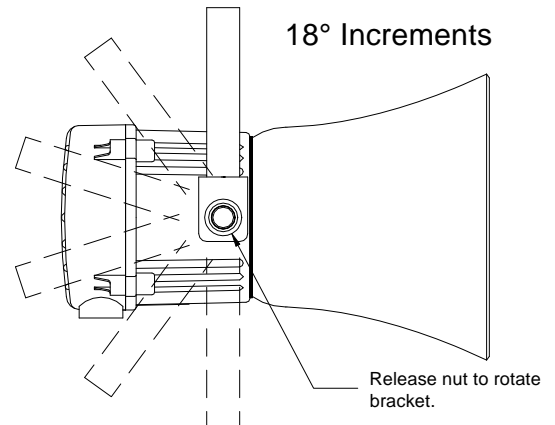


**WARNING – DO NOT OPEN WHEN ENERGISED**

**CAUTION - DO NOT OPEN WHEN AN EXPLOSIVE GAS OR DUST ATMOSPHERE IS PRESENT**

### MOUNTING

The E2xL25UL loudspeaker must be mounted using the rotating bracket as shown.



**WARNING - EXPLOSION HAZARD - SUBSTITUTION OF COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, II DIVISION 2.**

### WIRING INSTALLATION

The E2xL25UL loudspeaker is provided with 2 off M20 x 1.5 cable entries. 1 x 1/2" NPT adaptor and 1 x M20 stopping plug are provided.

#### Installation using Field Wiring Leads and Conduit

If the sounder is supplied pre-wired with flying leads, these are colour coded and should be connected as shown in the diagram below.

The conduit running from the supply to the sounder must include an equipment grounding conductor that is at earth potential to facilitate ground connection of the device. A number of sounders can be connected in a chain to the same supply using field installed wiring compartments that are appropriate for the hazardous location, provided that the conductor at earth potential can be readily connected to the ground lead on each sounder in the chain.

#### Installation using Cable Glands without Field Wiring Leads

If the sounder is supplied without field wiring leads, the cable connections are made into the terminal blocks on the electronic PCB assembly. Terminal blocks are suitable for field wiring (AWG 18-12). Strain relief has to be ensured by installation with a suitable cable gland. Follow the markings for the terminals on the PCB and install wiring as shown in the diagram below.

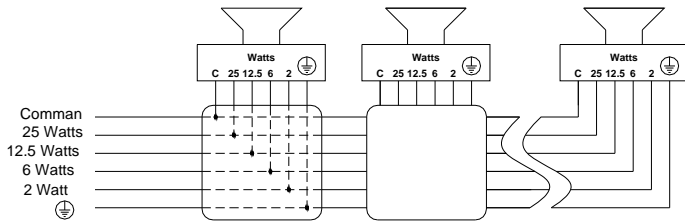
Cable glands need to be UL certified to ANSI/UL 2225 or C22.2 NO. 174-M1984. and to UL514B / CSA-C22.2 No. 18.3-12, ratings for hazardous locations must be equal to or better than the rating of the sounder used.

If a high IP (Ingress Protection) rating is required then a suitable sealing washer must be fitted under the cable gland.

**WARNING - ALL ELECTRICAL WIRING MUST BE INSTALLED IN ACCORDANCE TO THE NATIONAL ELECTRICAL CODE**

**100V and 70V Loudspeakers**

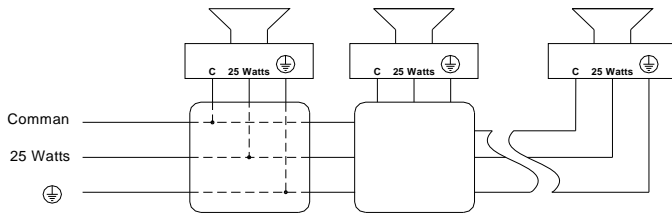
White Common  
 Red 25 Watts  
 Orange 12.5 Watts  
 Yellow 6 Watts  
 Violet 2 Watt  
 Green/Yellow Ground



NOTE - All wires are not used they must be individually insulated to ensure that cannot make contact to any other wires.

**8 ohm and 16 ohm Loudspeakers**

Black Common  
 Red 25 Watts  
 Green/Yellow Ground



**POWER AMPLIFIER SELECTION**

It is important that the E2xL25UL loudspeakers are connected to power amplifiers that have outputs that are compatible to the type of loudspeaker being used. Loudspeakers with a 70V or 100V line matching transformer fitted must be connected to a power amplifier with a 70V or 100V line output. Low impedance 8 ohm or 16 ohm loudspeakers must be connected to amplifiers with a suitable low impedance output.

| Unit Type | Input     | Wattage | Max. I/P Volts |
|-----------|-----------|---------|----------------|
| E2xL25UL  | 8 ohm     | 25 Watt | 14.14V         |
| E2xL25UL  | 16 ohm    | 25 Watt | 20V            |
| E2xL25UL  | 100V Line | 25 Watt | 100V           |
| E2xL25UL  | 70V Line  | 25 Watt | 70V            |

**WARNING – HIGH VOLUME MAY CAUSE HARM TO PERSONNEL IN CLOSE PROXIMITY**