

INSTRUCTION & SERVICE MANUAL

E2xL15UL LOUDSPEAKERS

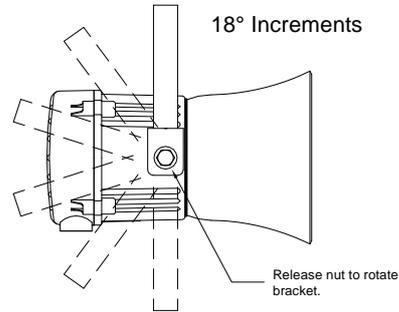
For Use In Hazardous Locations

- 15 Watt Loudspeaker
- 70V or 100V Line Transformer with 15W, 7.5W, 3W and 1W tapings
- 8 ohm or 16 ohm
- Type 4 / 4X / 13
- Operating Temperature Range -20°C to +55°C



Unit Type No. E2xL15UL

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



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

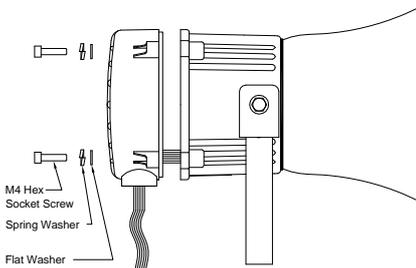
Max. Operating Temperature / Code at +55°C Ambient	
Hazardous Location	Temperature Code
Class I, Division 2, Groups A, B, C, D	T4 (135°C)
Class II, Division 2, Groups F and G	T6 (85°C)
Class III, Divisions 1 and 2	T6 (85°C)

Max. Operating Temperature / Code at +40°C Ambient	
Hazardous Location	Temperature Code
Class I, Division 2, Groups A, B, C, D	T4A (120°C)

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

PRE-INSTALLATION

WARNING – The E2xL15UL 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 E2xL15UL loudspeaker must be mounted using the rotating bracket as shown.

WIRING INSTALLATION

The E2xL15UL 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.

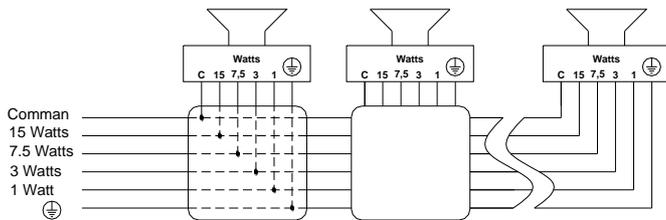
Cable glands need to be UL certified to ANSI/UL 2225 or C22.2 NO. 174-M1984. and to UL514B / CSA-C22.2 No. 18.3-12, ratings for hazardous locations must be equal to or better than the rating of the sounder used.

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

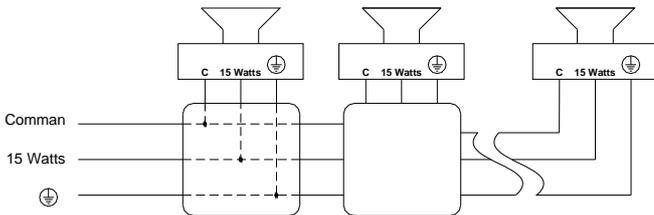
White Common
 Red 15 Watts
 Orange 7.5 Watts
 Yellow 3 Watts
 Violet 1 Watt
 Green/Yellow Ground



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 15 Watts
 Green/Yellow Ground



POWER AMPIFIER SELECTION

It is important that the E2xL15UL 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
E2xL15UL	8 ohm	15 Watt	10.95V
E2xL15UL	16 ohm	15 Watt	15.49V
E2xL15UL	100V Line	15 Watt	100V
E2xL15UL	70V Line	15 Watt	70V

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