

INSTRUCTION & SERVICE MANUAL E2xL15EG LOUDSPEAKERS For Use In Hazardous Areas

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

Unit Type No. E2xL15EG

Impedance: 8 ohm or 16 ohm

70V Line or 100V Line

 $\langle \xi_{\rm X} \rangle$

II 3G EEx nA II T4 (Tamb. -20°C to +55°C)

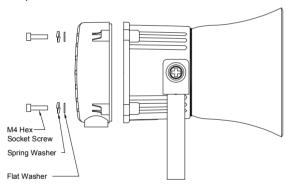
Certificate No. DEMKO 06 ATEX 0421554

Group/Category: II 3G

Zone: Zone 2

PRE-INSTALLATION

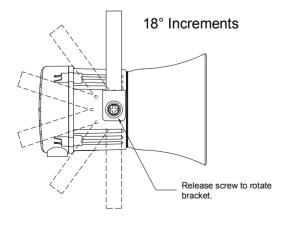
The E2xL15EG loudspeakers must be installed in accordance with the relevant parts of the EN60079 standards or the equivalent IEC standards.



WARNING - DO NOT OPEN WHEN ENERGISED

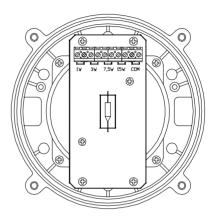
MOUNTING

The E2xL15EG loudspeaker must be mounted using the rotating bracket as shown.

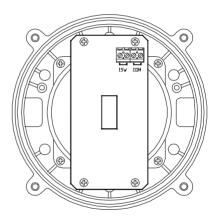


WARNING – TO AVOID A POSSIBLE ELECTROSTATIC CHARGE ONLY CLEAN THE UNIT WITH A DAMP CLOTH

E2xL15EG Loudspeaker 70V and 100V PCB Layout



E2xL15EG Loudspeaker 8 ohm and 16 ohm PCB Layout



WIRING

The E2xL15EG loudspeaker has two M20 cable entries one of which is fitted with an M20 blanking plug. This should be removed if two cable entries are required. Cable entry devices shall be used which ensure a minimum ingress protection of IP54.

The cable connections are made to the terminal blocks on the pcb assembly in the enclosure.

WARNING - ALL ELECTRICAL WIRING MUST BE INSTALLED IN ACCORDANCE WITH THE RELEVANT STANDARDS AND ANY LOCAL CODES THAT MAY APPLY

European Safety Systems Ltd. Impress House, Mansell Road, Acton, London W3 7QH

<u>sales@e2s.com</u> Tel: +44 (0)20 8743 8880 <u>www.e2s.com</u> Fax: +44 (0)20 8740 4200

09-03-06

Sheet 1 of 2

100V and 70V Loudspeakers

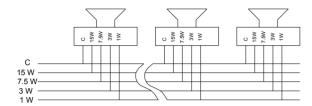
 Common
 Com

 15 Watts
 15W

 7.5 Watts
 7.5W

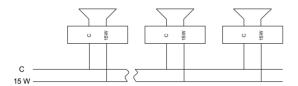
 3 Watts
 3W

 1 Watt
 1W



8 ohm and 16 ohm Loudspeakers

Common Com 15 Watts 15W



POWER AMPIFIER SELECTION

It is important that the E2xL15EG 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
E2xL15EG	8 ohm	15 Watt	10.95V
E2xL15EG	16 ohm	15 Watt	15.49V
E2xL15EG	100V Line	15 Watt	100V
E2xL15EG	70V Line	15 Watt	70V

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

 European Safety Systems Ltd.
 Impress House, Mansell Road, Acton, London W3 7QH
 sales@e2s.com www.e2s.com
 Tel: +44 (0)20 8743 8880 Fax: +44 (0)20 8740 4200

 Document No. IS4212
 Issue: B
 09-03-06
 Sheet 2 of 2