

LSDDC

Dual DC Line Surveillance Interface with Loop Return Option



The LSDDC is an amplifier interface card for use with the M100, M200 and M400 Class D Amplifiers in a V400 Amplifier Mainframe for Voice Alarm and Public Address applications.

Uniquely, it enables two circuits (A&B) to be fed from a single amplifier while still maintaining BS5839 Pt 8 compliance.

This interface card provides: amplifier health monitoring via subsonic surveillance tone; automatic control of changeover to standby amplifier; loudspeaker line earth leakage monitoring and loudspeaker line 'End of Line' (EOL) monitoring.

Relays in series with each output facilitate isolation of faulty speaker circuits.

The unit also supports a secondary audio input that enables emergency sources to be switched directly to the input of the power amplifiers.

A second mode of operation allows loop return monitoring to be implemented or a single loudspeaker circuit can be fed instead of two, if required.

For further details please refer to the LSDDC Product Manual, the V400 Amplifier Mainframe Handbook, and the Application Solutions PA/VA Systems Design Handbook.

Product Datasheet

Specification

General

Current consumption (average, without changeover, 24V supply)LSDDC = 7mA
LOOP RETURN =31mA
 Current consumption (average, with relays operating, 24V supply)31mA with one isolation relay
61mA with isolation and changeover
 Maximum amplifier output power..... Refer to amplifier specifications
 Surveillance tone frequency and level compatibility
 (Level referred to amplifier output)20 to 40Hz, 1 – 2V RMS
 Pulsed surveillance tone compatibility
 RepetitionContinuous to 50 seconds
 Duration 1 second to continuous
 Ground (earth) resistance fault threshold..... 500kΩ
 Loudspeaker line 'End of Line' monitoring capability..... Up to 10 EOL resistors can be monitored
(Up to 10 loudspeaker line spurs split between the two outputs)

Dimensions and Weight

Dimensions (H x W x D)87mm x 79mm x 130mm
 Weight.....0.25kg

Environmental

Temperature (storage and operating) -5°C to +50°C
 Humidity range.....0% to 93% Non-condensing



This equipment is designed and manufactured to conform to the following EC standards:
 EMC EN 50121-4, EN 55103-1 Environment E1, EN 55103-2 Environment E5
 Safety EN 60065

Manufacturer
 Application Solutions (Safety and Security) Limited
 Unit 17 Cliffe Industrial Estate
 Lewes - East Sussex
 BN8 6JL - UK

Tel: +44(0)1273 405411

Fax: +44(0)1273 405415

www.asl-control.co.uk



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