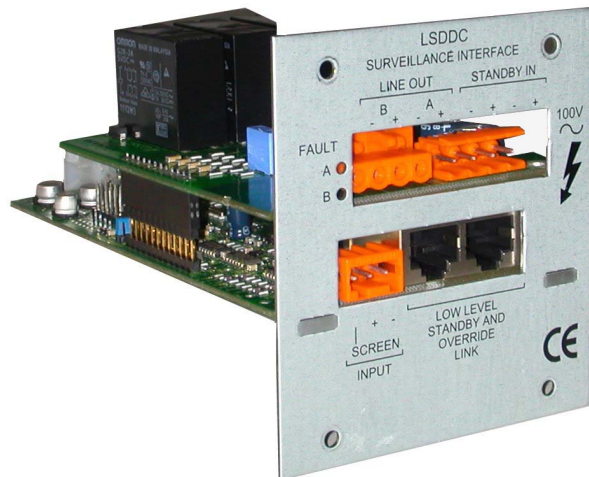


LSDDC Dual DC Line Surveillance Interface with Loop Return Option



Description

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 Amplifier Mainframe Handbook, and the Application Solutions PA/VA Systems Design Handbook.

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	400W (200W per circuit for dual output)
Surveillance tone frequency and level compatibility (level referred to amplifier output)	20 to 40Hz, 1 – 2V RMS
Pulsed surveillance tone compatibility	
Repetition	Continuous 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 55103-1 Environment E1, EN 55103-2 Environment E5
 Safety EN 60065

Failure to use the equipment in the manner described in the product literature will invalidate the warranty.

A 'Declaration of Conformity' statement to the above standards, and a list of auxiliary equipment used for compliance verification, is available on request.

Manufacturer

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