

# LSZDC



- D150 / D500 SURVEILLANCE MODULE
- LOOP, IMPEDANCE AND DC MONITORING
- LOW STANDBY CURRENT

## OVERVIEW

The LSZDC is an amplifier interface card for use with the D500 and D150 Transformerless Class-D Amplifiers in a V2000 Amplifier Mainframe for Voice Alarm and Public Address applications. 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
- standby switchover
- loudspeaker line earth leakage monitoring
- loudspeaker line 'End Of Line' (EOL) monitoring

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

Loudspeaker circuits can be monitored using DC, Impedance or Loop Return methods.

Each LSZDC includes powerful on-board DSP (digital signal processing) capability, enabling parametric equalisation, gate and gain settings to be applied separately to each amplifier.



## SPECIFICATION

### Power

Quiescent Current (Normal)..... 15mA

Quiescent Current (Loop Return Mode)..... 39mA

### Audio Processing

Gain ..... -60 to +10 dB

Gate ..... Configurable Threshold / Attack / Hold Release

EQ ..... 10 Band Parametric

### Interfaces

Audio Input..... 0dB Balanced Analogue Audio

Loudspeaker Monitoring ..... DC, Loop Return, Impedance

Loudspeaker Outputs..... Dual A and B outputs

### Environmental

Operating ..... -10°C to +55°C<sup>1</sup>

Storage ..... -20°C to +55°C

Humidity Range ..... 0% to 93% non-condensing

<sup>1</sup>With RAK-FAN-01 fans fitted. Otherwise 40°C. Note that fans are required in certain configurations. See ASL design guide for more information.

### Mechanical

Dimensions ..... 64 mm x 30 mm x 121 mm

Weight..... 0.15 kg

IP Rating ..... IP20 as part of V2000 frame



This equipment is designed and manufactured to conform to the following EU Directives:

Electromagnetic Compatibility (EMC): 2014/30/EU

Low Voltage: 2014/35/EU

Restriction of Hazardous Substances (RoHS): 2011/65/EU

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

Tel: +44(0)1273 405411  
[www.asl-control.co.uk](http://www.asl-control.co.uk)

Fax: +44(0)1273 405415



Assessed to ISO 9001

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