

- ✓ Enables Zenitel amplifiers to detect open or short circuit faults at the end of the line using impedance monitoring
- ✓ Monitors loudspeaker line circuits
- ✓ Compatible with the V2000, INTEGRA and VAIA ranges
- ✓ An Integrated part of the Zenitel EN 54-16 certified PAVA system



EOLZ01

Loudspeaker **End of Line Impedance** device

The EOLZ01 is a compact end-of-line device designed for use with Zenitel amplifiers configured to support impedance loudspeaker line monitoring.

In this method, the PAVA system transmits a 20 kHz surveillance tone through the loudspeaker circuit, and the LSZDC interface card associated with the amplifier measures the resulting impedance to verify circuit integrity. Without an end-of-line device, open- or short-circuit faults may not cause a sufficiently large impedance change to trigger an alarm. The EOLZ01 solves this by providing a stable, calibrated load at the end of the line, ensuring that any fault or disconnection produces a clear, detectable shift.

The compact PCB allows flexible installation either inside the final loudspeaker on the line or directly after the final loudspeaker in a suitable junction box. Suitable for both new projects and retrofits, it requires no additional hardware on the speakers or wiring.

To comply with BS 5839-8 and ensure circuit integrity in the event of fire, loudspeaker connections are made via a ceramic terminal block, while safety and thermal fuses ensure that the unit cannot cause a loudspeaker line short-circuit in the event that it is directly affected by fire.

Non-intrusive Line Supervision for Voice Alarm and PA Systems

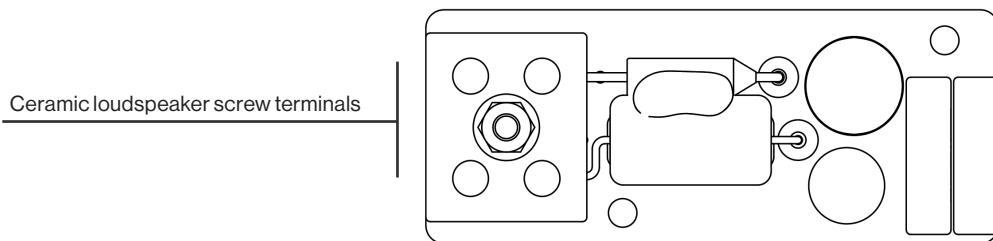
By enabling impedance monitoring, the EOLZ01 provides a reliable, non-intrusive method of supervising loudspeaker lines, including retrofit systems, without the need to alter existing speakers or cabling. Fully compliant with international safety standards, it is an ideal solution for both emergency voice alarm and public address applications.

Impedance Monitoring and Circuit Supervision

When paired with a compatible Zenitel amplifier, the EOLZ01 supports impedance monitoring on loudspeaker circuits up to 500 m in length. Up to 4 devices can be used on a single amplifier to enable circuit spurs to be monitored, although the maximum circuit length decreases as more are added. Detailed specifications and limits are provided in the installation manual.

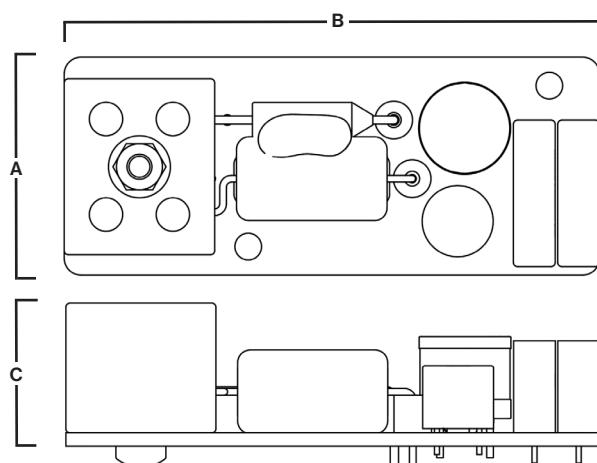
MECHANICAL

Top Down View



Views & Dimensions

Dimension		
A	Width	26 mm
B	Depth	64 mm
C	Height	20 mm



SPECIFICATIONS

General

Operational Frequency	20 kHz
Maximum Surveillance Tone Leve	10 V RMS
Nominal Impedance at 20 kHz	109 - 170 ohms

Power Supplies

Current Rating	200 mA
Maximum Input Voltage	140V RMS (20Hz – 20kHz)
Fuse Rating (Safety)	250 mA
Fuse Rating (Thermal)	121 degrees C

Environmental

Operating Temperature	-25 to 70°C
Storage Temperature	-25 to 70°C
Humidity Range	0% to 93% Non-Condensing

Mechanical

Finish	PCB
Connectors	Ceramic Screw Terminals
Dimensions (H x W x D)	20.0 mm x 26.0 mm x 64.0 mm
Ingress Protection	Determined by the method of housing

Approval and Standard Compliance

Low Voltage Directive (Safety)	EN 62368-1
Environmental	RoHS / REACH
Conformity Europe	CE

Part Code

EOLZ01 - 10 Pack	Impedance End -Of-Line Device- 10 Pack
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Compatible Products

LSZDC	PAVA Amplifier Interface Module for the V2000
VAIA Range	PAVA System - 1000W

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Created: 2016.08

Revised: 2025.12 | V3

U-0623-1726

EOLZ01 Datasheet