

LTD010

LOUDSPEAKER END OF LINE DEVICE



DS-301 Issue 01

Thank you for your interest in Zitel - we are a UK based manufacturer of PAGA and Intercom products. Our systems are mainly designed for use in the Hazardous Oil, Gas and Petrochemical industries.

LTD010 enables full critical path supervision on radially wired / star wired, PAGA Loudspeaker networks without additional field cable conductor requirement. The unit is weatherproof and is suitable for Marine and Industrial applications.

Please do not hesitate to contact us for further information on our products we look forward to working with you on a project soon...

ZITTEL LTD010 LINE SUPERVISORY

Secure line supervision – Early warning of system deterioration

Weatherproof – Suitable for internal and external location

No additional field conductors required – Simple installation

The LTD010 end of line device is specified for use with mission critical PAGA broadcasts systems and is designed to fit at the last loudspeaker position when a radial line field cable architecture is employed i.e. the field cable is *not* returned from the end if line return to from a loop or ring.

The unit communicates with the host PAGA rack via the respective loudspeaker line and in doing so automatically verifies associated field cable connectivity.

The Zitel central equipment management subsystem delivers an inaudible test signal envelope which is sent to the loudspeaker distribution networks. The central equipment processor must receive a valid handshake back from the LTD010 end of line device to maintain a healthy system status.

In the event of a short or open circuit on the line, the LTD010 will fail to receive the supervisory test signal and the line confirmation handshake will not be initiated resulting in a line fault being detected. Tree and branch loudspeaker network architectures can be implemented with the Zitel 350 A amplifier module capable of resolving up to six end of line units per amplifier output.



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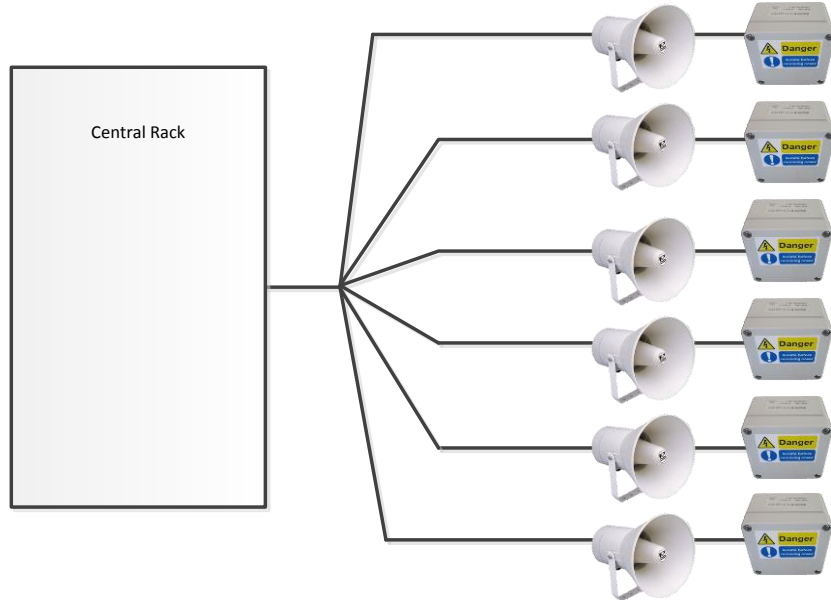
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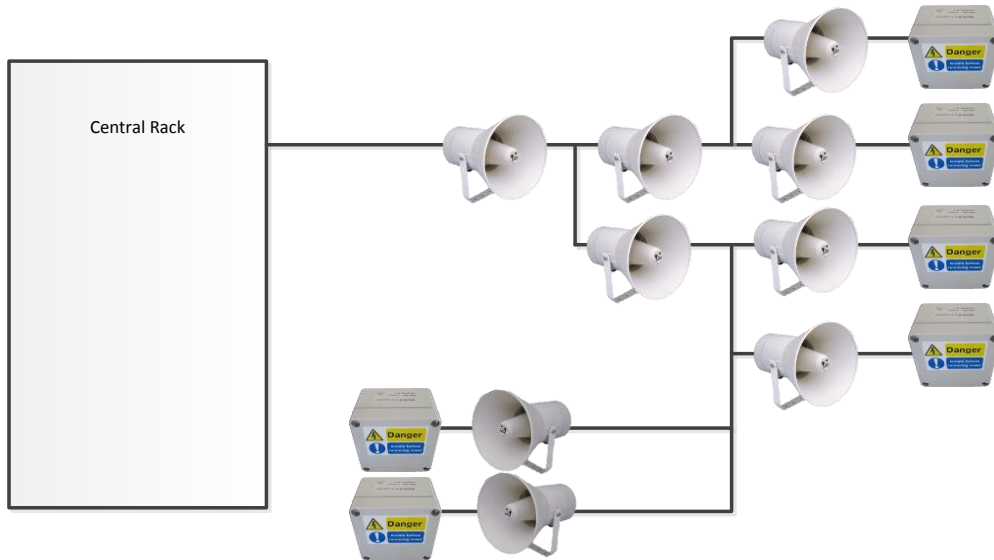
Up to six LTDO10 can be connected to a single amplifier (type 350A or 350-500A) output line

(See also LTDO10Ex end of line device; note that it is possible to mix Explosion proof and NON Explosion proof LTDO10 / o10Ex on the same amplifier output line)

Loudspeaker Circuit in Star wired connection topology



“Tree and Branch” Loudspeaker circuit connection topology



Technical Specification	
Dimensions	90 x 90 x 70mm (W,L,H)
Weight	0.5 Kg
Material	Plastic
Finish	Grey
Ingress Protection	IP66
Location	Safe area
Gland Entry	1 x 20mm
Terminations	Up to 2.5 mm ² cross sectional area
Operating Temperature Range	-30 °C to +70 °C

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