

LTD011

SAFE AREA BEACON END OF LINE DEVICE



DS-302 Issue 01

Thank you for your interest in Zitzel - 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.

LTD011 enables full critical path supervision on radially wired / star wired, PAGA Beacon networks without resorting to additional field cable conductors. The unit is fully Ex certified and enables operation in potentially explosive atmospheres.

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



LTD011 FLASHING BEACON LINE SUPERVISORY

Secure line supervision – Early warning of system deterioration

Weatherproof – Suitable for use in external or internal locations

No additional field conductors required – Simple installation

The LTD011 end of line device is specified for use with mission critical PAGA broadcasts systems and supervises the lines between central equipment and flashing beacons. LTD011 is designed to monitor either star or radially wired circuits i.e. where the field cable end of line cannot be returned to the central rack to form a loop or ring circuit.

The LTD011 unit communicates with the host PAGA central equipment rack via the respective flashing beacon line and in doing so automatically verifies associated field cable connectivity.

The Zitzel central equipment management subsystem delivers a test signal envelope which is sent to the beacon distribution networks at regular intervals. The central equipment processor must receive a handshake back from the LTD011 to maintain a healthy system status.

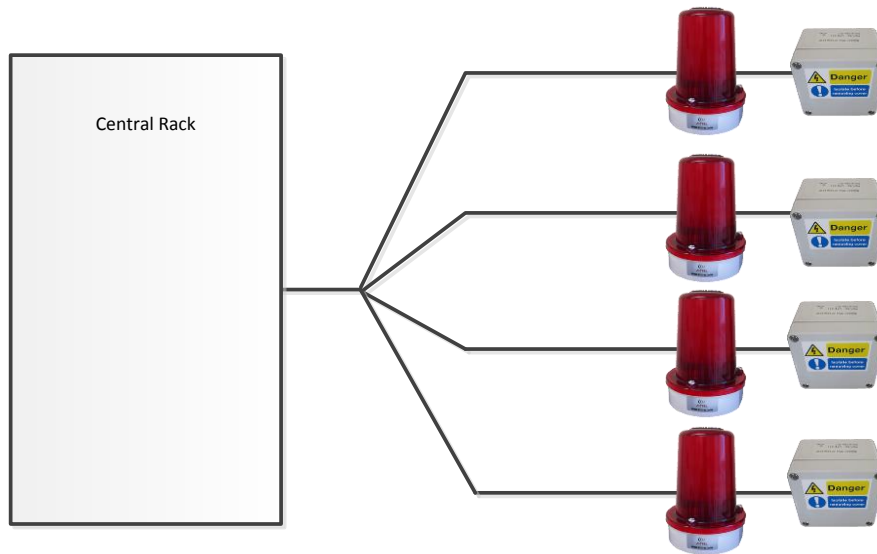
In the event of a short or open circuit flashing beacon circuit, the LTD011 will fail to receive the supervisory test signal and the line confirmation handshake will not be initiated resulting in a fault being detected.

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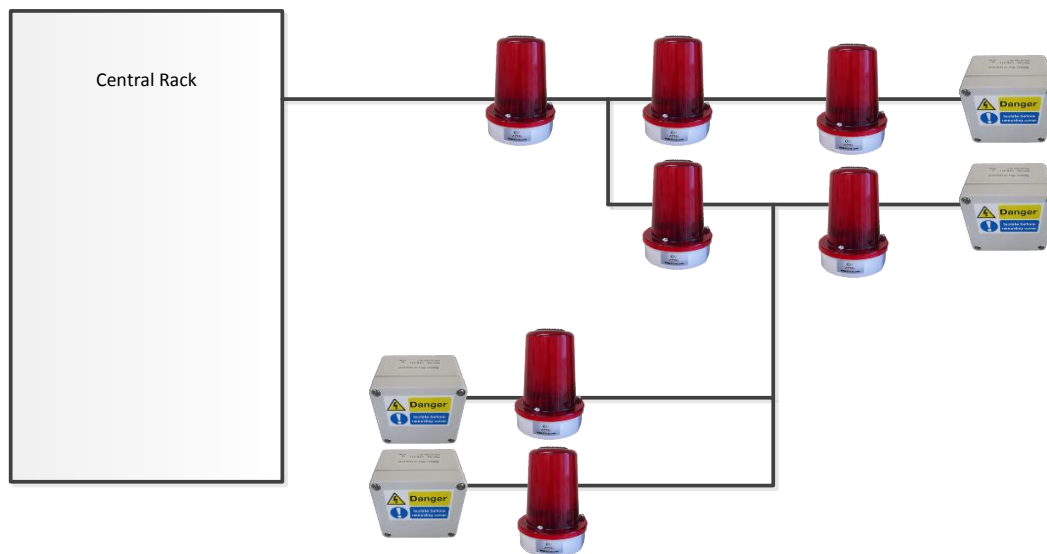
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Flashing Beacon Circuits in star wired connection topology



“Tree and Branch” Flashing Beacon 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
Maximum field cable conductor size	2.5mm ² CSA cross sectional area
Operating Temperature Range	-30°C to +70°C

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