Lucy Zodion

FORTRESS PS-SUBGROUND



AUTOMATIC ELECTRICAL ISOLATION SOLUTION
Part of the Fortress Passive Safe Range

The Fortress PS-Subground is a proven Passive Safe solution designed to automatically disconnect power following a vehicle impact. Installed within an underground chamber, the continuously monitored system uses impact sensor technology to isolate the affected circuit in less than 0.4 seconds, helping to reduce electrical hazards and improve safety for road users, emergency services and maintenance teams.

The underground design reduces the need for above ground structures, while maintaining critical safety protection.

BS EN 127 67 Compliant

Underground Installation Local to Protected Asset

<0.4 Seconds Electrical Isolation



Low Voltage Impact Sensor

DESIGN & OPERATION

- BS EN 12767 Compliant
- Compatible with NE, LE & HE Passively Safe Columns
- Automatic Power Isolation Within 0.4 Seconds of Impact
- Manual Reset Prevents Accidental Re-Energisation
- Pre-Wired, Ready-to-Install Solution
- Robust IP67 Rated Polycarbonate Enclosure
- Two enclosure size options depending on cable sizes from 6-25mm^2
- Simple Commissioning & Periodic Testing
- Clear Lid for Visual System Inspection

APPLICATIONS

Street Lighting Columns

Variable Message & Activated Signage

Feeder Pillars

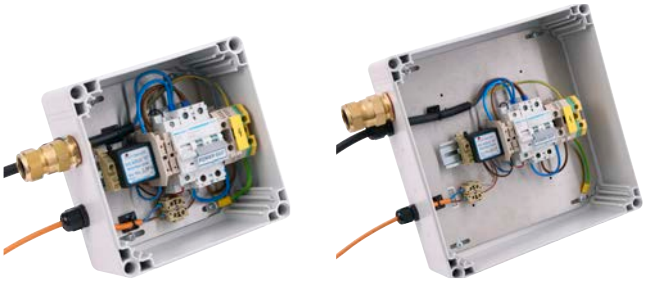
Illuminated Signage

Traffic Signals

Illuminated Bollards

SPECIFICATION

Main Enclosure	Polycarbonate enclosure with clear inspection lid for non-invasive system inspection
Monitoring System	Scalable monitoring system to suit multiple highway configurations
Electrical Disconnection Time	<0.4 seconds
Reset Method	Two-way system reset with manual intervention, to prevent inadvertent re-energising of circuits after system activation
IP Rating	IP67 Enclosure (Fitted with IP68 brass and plastic cable glands)
Standard Compliance	BS EN 12767:2019+A1:2024 (Passive Safety) BS 7671:2018+A2:2022 (18th Edition Wiring Regulations)
Compatible Structures	Non Energy (NE), Low Energy (LE), High Energy (HE), Passively Safe and Non-Passive
Operating Voltage	230V AC control equipment, 24V DC impact sensors



Specification	Option 1	Option 2
Supply Cable Size	6mm² - 10mm²	16mm² - 25mm²
Minimum Chamber Size	450mm x 300mm	600mm x 450mm
Enclosure	200mm x 200mm x 130mm	300mm x 300mm x 130mm

Multiple enclosure options are available to suit varying cable sizes and project requirements.

OTHER FEATURES

- One-Way or Two-Way Network Configurations Available
- Additional Spur Supply Options Available
- Supplied with 5m Pre-Fitted Power & Sensor Cables
- Optional Chamber Wall Mounting Plates
- Suitable for 6-25mm² SWA Cable

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Call our customer sales team on: **+ 44 (0) 1422 317 317**
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For quotes, please email: **quotes@lucyzodion.com**

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