



Pillars, Power Supply & Isolation

Mechanical Only Breakdown Systems MOBS



Applications:

Street Lighting Columns, Illuminated Signs, CCTV Columns

The NAL MOBS (Mechanical Only Breakaway System) is a physical termination for NE or LE Passively Safe Columns. It is a minimum option for isolating the electricity supply to a single structure under impact. The system activation relies on the physical disconnection, on impact of a tethered in-line IP68 Plug and Socket.

The MOBS System is located within an IP67 enclosure which is mounted in the NAL underground STAKKAbox Access Chamber, between 3 and 5 metres from the structure. A galvanised steel eyebolt is provided to enable a secure fixing point.

The MOBS unit is assembled to your requirements and can accommodate a range of cable sizes from 6mm-25mm 4 core SWA cables. Each unit is provided with 5 metres of flex cable as standard, complete with one IP68 in-line Plug and Sockets. These are mounted and tensioned within the passively safe structure, just below ground level. On impact if the column detaches from it's base the tensioned in-line Plug and Socket will separate, leaving the detached structure voltage free.

Advantages

- ◇ Fully compliant with EN12767:2007
- ◇ Successfully tested at MIRA
- ◇ Disconnection time proved with timing device
- ◇ Suitable for use with NE, LE and HE Passively safe columns
- ◇ Appropriate for use in non-passive columns
- ◇ IP68 inline plug and socket system
- ◇ Suitable for use with 6 – 25mm SWA cable
- ◇ IP67 Enclosure with clear front casing



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Mechanical Only Breakdown Systems (MOBS) Specification

Operating Voltages

Up to 400v AC 50/60Hz (3 Phase)

Enclosure Dimensions

Height 280mm Depth 130mm Width 280mm

Terminals

16mm DIN through terminals as standard

35mm DIN through terminals for larger cables

Multiple linked terminals if requested

Cable Glands

Plastic IP68 for the outgoing flex

Brass double seal IP68 glands for incoming SWA cables, 20mm or 25mm

Important note:

This system does not provide an automatic electrical disconnection. It relies on tension being applied to a tethered plug and socket, which will pull apart if the column detaches under impact.

Please note:

If column fails to detach, the plug and socket will not disconnect. For zero volt guaranteed disconnection please refer to our above or below ground sis- safety isolation system.



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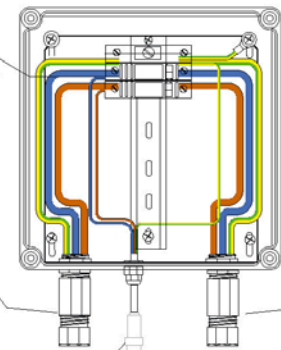
MOBS Underground Unit

Plan

16 to 35mm
DIN terminals

IP68 brass
gland to suit
cable size

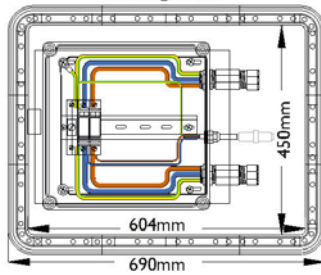
IP68 brass
gland to suit
cable size



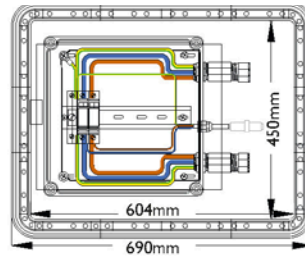
Power out flex with IP68 in line
plug and socket located within
structure

**STAKKAbox Chamber
Arrangement**

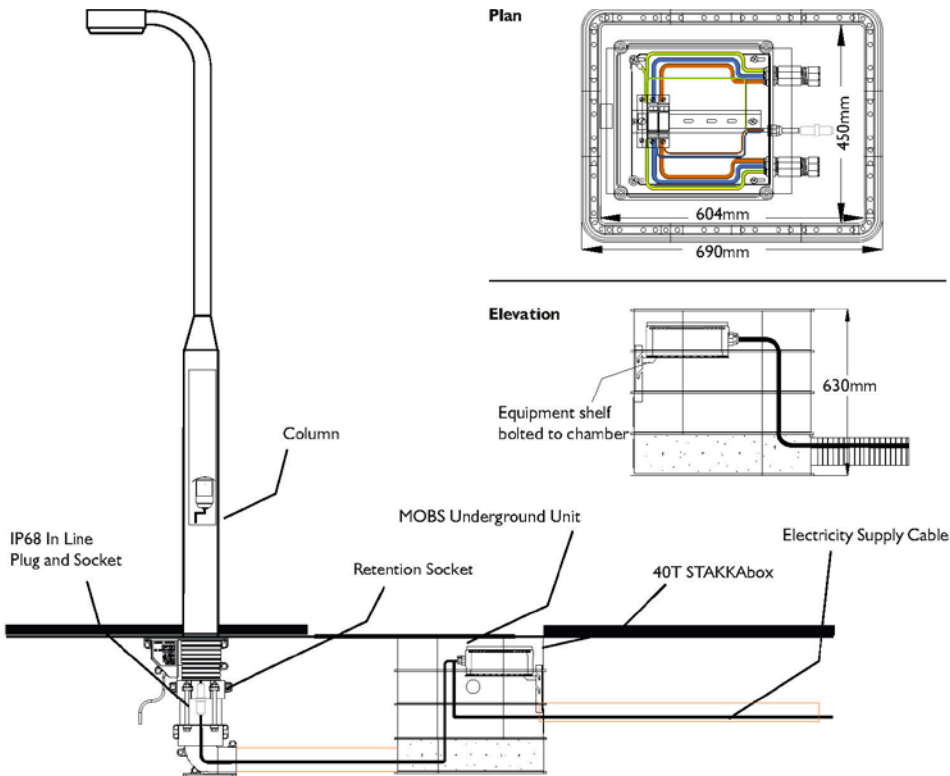
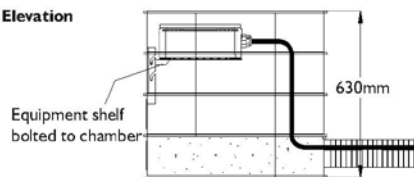
Plan



Plan



Elevation



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