



# Pillars, Power Supply & Isolation

## SIS Pillar



### Applications:

**Street Lighting Columns, Illuminated Signs, Information Signs, CCTV Columns, VAS Signs, VMS Signs**

The SIS SOLO (Pillar) has been specifically designed to meet EN12767:2007 in its requirement to electrically isolate any item of street furniture containing an electrical supply in the event of an impact. Each structure is fitted with a small SIS impact sensor. In the event of an impact the sensor provides an output to the SIS SOLO monitor unit, which in turn activates complete LV or ELV isolation within 0.4 seconds to the individual structure.

The unit is designed to be fitted into a local feeder pillar operating the protected street furniture. The SOLO units are wired to activate individual circuit breakers operating individual circuits or structures. Being an above ground system it offers benefits in that it is easier to check and can also provide cost benefits over an underground option.

### Advantages

- ◇ Fully compliant with EN12767:2007
- ◇ Suitable for use with NE, LE and HE Passively safe columns
- ◇ Above ground system designed and built to your specification
- ◇ Guaranteed electrical isolation of all volts within 0.2 seconds of impact
- ◇ Guaranteed isolation even if the structure has not detached from its base
- ◇ Provides isolation of individual structures or circuits
- ◇ Provides fault outputs for impact, voltage drop and maintenance issues
- ◇ Fault outputs can be connected to CMS or RMS systems
- ◇ Simple to test at commissioning stage and for periodic maintenance



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# SIS Pillar Specification

## Operation

The system will be incorporated into a local feeder pillar based on one SOLO unit for each protected circuit. These units are wired to the isolator supplying one or multiple structures. The impact sensor is fitted to the structure and when the impact sensor is triggered the monitor unit will be activated and the supply isolator switched off. Where multiple structures are being fed the sensors will be wired in series so that when any one sensor operates the whole circuit is switched off. The impact sensor voltage will also be switched off leaving the structure completely voltage free.

Using this system most users find an acceptable method of wiring is to wire as follows, circuit 1 to structure 1, circuit 2 to structure 2, circuit 3 to structure 3, circuit 1 to structure 4 etc. By using this method the majority of lighting will be left operational, if one circuit is tripped.

All SIS equipment has been CE and environmentally tested in accordance with TR2130.

## Solo Unit (Pillar)

Units are DIN rail mounted, equivalent to a double pole circuit breaker.

Combined monitoring and power supply in one unit.

Positive indication by LED of activation due to impact.

Complete electrical isolation of a whole structure or circuit including the impact sensor. Provides outputs for, impact or float switch fault (F1), system failure (F2).

Units are fitted with dual processors to improve reliability and improve operation.

## Sensor

Inertia device operating at 10 to 16G.

An IP64 rated mechanical device which draws no power.

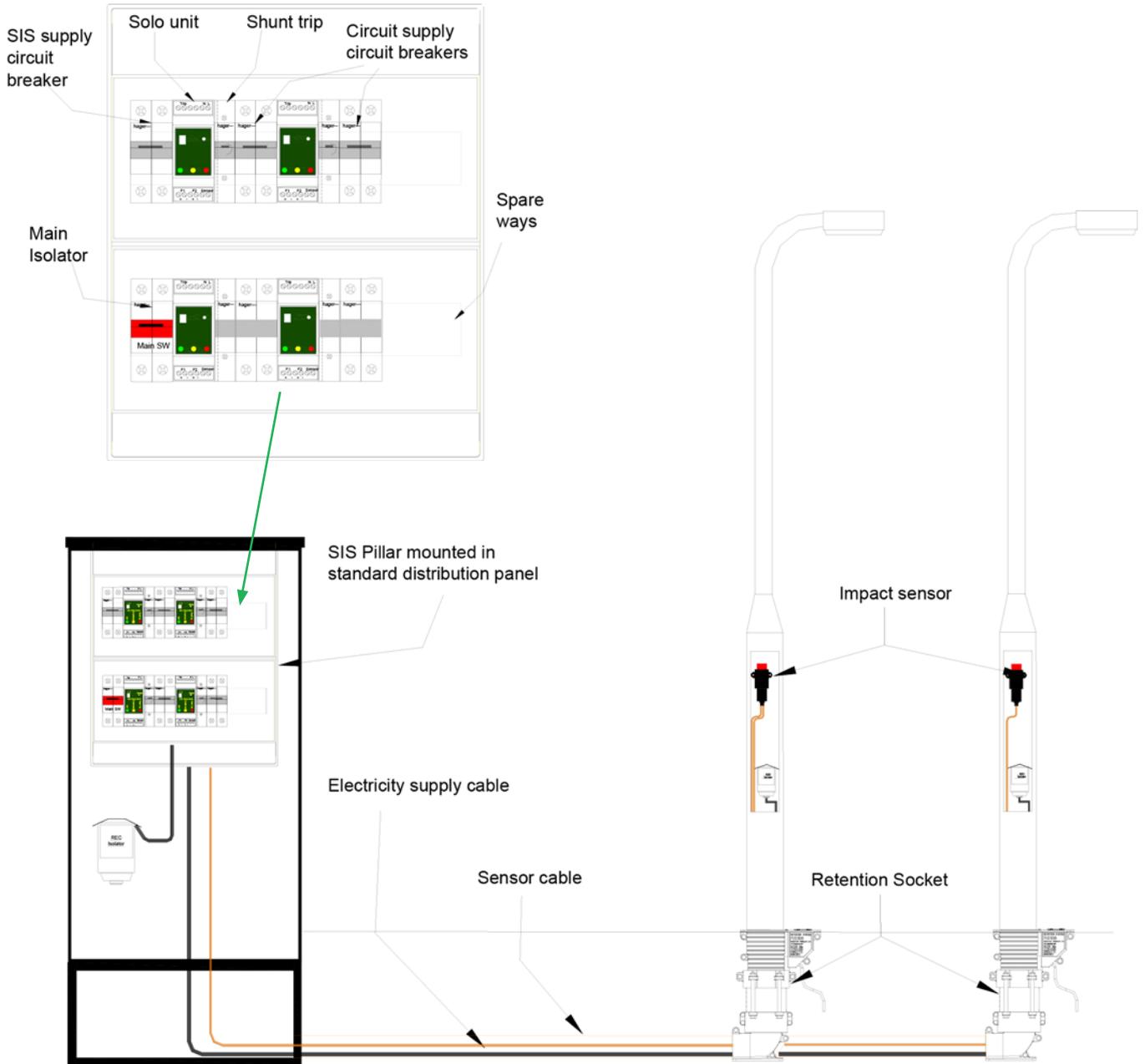
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