

Pillars, Power Supply & Isolation

SIS Mini



Applications:

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

The SIS Solo (Mini) has been specifically designed to meet EN 12767: 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 SIS sensor provides an output to the SIS (Mini) monitor unit, which in turn activates complete LV and ELV (Zero Volt) isolation within 0.4 seconds to the individual structure.

The SIS Mini is designed to be installed above ground in a mini feeder pillar or in a non passive column which is supplying the power to the Passive column. The SIS Mini can be located up to 1km away from the SIS impact sensor and still guarantee complete electrical isolation with 0.4 seconds of impact. All the SIS Mini equipment is pre installed in a small IP67 enclosure. Being an above ground unit it simplifies the maintenance of the system, making it safer for engineers and more reliable.

Advantages

- ◇ Suitable for use with NE, LE and HE Passively safe columns
- ◇ 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
- ◇ Successfully tested at MIRA



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SIS Mini Specification

Isolation - SIS Solo Mini pillar/column mounted disconnection system to meet BS EN12767 (disconnection of roadside structure within 0.4ms of impact).

Enclosure - SIS Solo Mini unit housed in standard IP67 enclosure with DIN rail mounting. Enclosure will accommodate one circuit only.

Mounting - SIS Solo Mini to be mounted on a standard Top Hat DIN rail along with associated shunt trip and DP circuit breaker.

Feeder Pillar - SIS Solo Mini equipment will require a pillar or column of a size to accommodate aq 230 x 100 enclosure. Together with a cutout with sub fuse facility.

Remote Monitoring - SIS Solo unit will provide switchable fault outputs to indicate an impact and unit failure.

Failsafe Mode - In the unlikely event of a SIS Solo unit failure, the monitored structure can be isolated removing potentially dangerous circuit voltages and drawing attention to the defect. Setting DIP switch 2 to off removes this facility.

Cable Terminations - terminations are provided using IP69 plastic compression glands for flexible cables. Armoured cables should be terminated in the cutout.

Sensor - IP64 rated mechanical impact sensor to be mounted vertically within the structure. The sensor also provides a means of confirming the system operation during commissioning and routine maintenance.

Plugs and Sockets - If required IP68 rated plugs and sockets can be supplied. If used, install and secure within the structure, just below ground level.

Retention Sockets - Columns are to be housed into ductile iron Retention Socket foundation with bottom entry cable access bend.

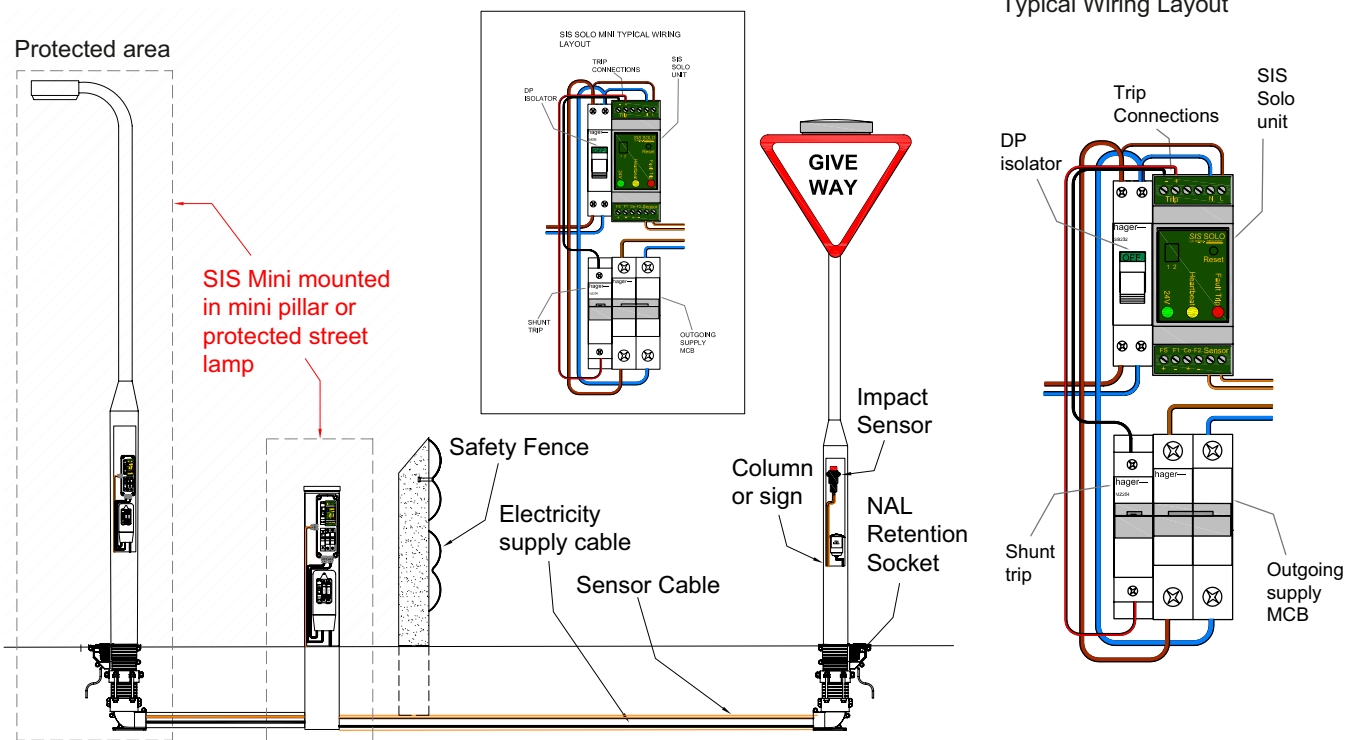


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SIS Solo Mini
Typical Wiring Layout



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