



# Product Information Sheet

## Isolating Surge Protection Unit - ISPU Type: SP01

## Isolating Surge Protection Unit

### Overview

Park Signalling's Isolating Surge Protection Unit (ISPU) for SSI Data Links is an improved surge protection unit that incorporates a transformer to greatly enhance immunity to common mode surges and voltages and is plug-compatible with units designed to GS/ES 1937.

The SSI system requires that the data link and Data Link Modules (DLMs) be protected from lightning, traction and other electrical surges. This is conventionally achieved by the use of Surge Protection Units (SPU) placed at DLMs, along with Data Link Isolating Transformers (DLITs).

There have been several successive generations of surge protection for SSI, each giving enhanced protection compared with the earlier generation. The most recent standard, Engineering Specification: SSI Trackside Data Link Surge Protection Module GS/ES 1937, defines a plug-in unit to a prescribed 11-pin base design.

Park Signalling's ISPU is the only ISPU device with Network Rail approval (PADS no. 086/047164).



ISPU

### Environment

The ISPU-E SP 01 module is designed to meet the requirements of BS EN 50125-3:2003 for equipment housed in a cubicle, (Altitude A1, Temperature Range T1).

### Electrical connections

All connections are made via the 11 pin (B11A) plug base, in accordance with GS/ES1937.

PSL Part No	Description	PA Cert No	PADS
SP 01	ISPU-E Isolating Surge Protection Unit	PA0502209	086/047164