



- ◆ Available for 90–150 volts and 200–280 volts supplies.
- ◆ Suitable for use on supplies of up to 5 or 16 amps.
- ◆ Protectors with /BX suffix come ready-boxed, to IP66, for use in dirty or damp environments.

Application

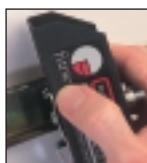
Use these protectors on low current mains power supplies, eg CCTV cameras, alarm panels and telemetry equipment.



Ready boxed protector (here an ESP 240-5A/BX) installed on the fused connection (spur) to an alarm panel.

Features and benefits

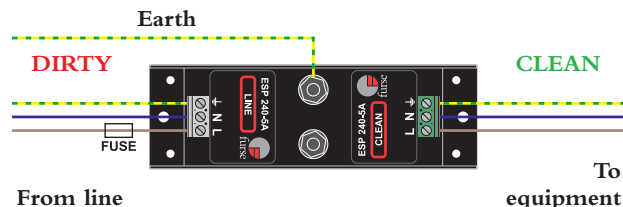
- ✓ Low let-through voltage between all sets of conductors (phase to neutral, phase to earth and neutral to earth).
- ✓ Provides repeated protection in lightning intense environments, with 10 years predicted lifetime.
- ✓ Compact size for easy incorporation in the protected system.
- ✓ Removable DIN rail foot for simple clip-on mounting to top hat DIN rails (unboxed versions).
- ✓ Colour coded terminals give a quick and easy installation check – grey for the dirty (line) end and green for the clean end.
- ✓ Available ready-boxed to IP66 for use in dirty or damp environments (protectors with /BX suffix).
- ✓ Robust housing.
- ✓ Fixing holes ready for flat mounting.
- ✓ Substantial earth stud.
- ✓ Maintenance free.



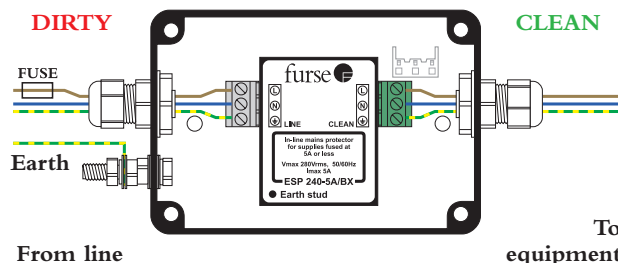
If your supply is fused at more than 16 amps the ESP 120 M1 or ESP 240 M1 are suitable protectors.

Installation

Connect in-line with the power supply usually either within the equipment panel (or for CCTV cameras, in an enclosure close by), or on the fused connection that supplies equipment.



Connect in-line on supplies fused up to 5A (ESP 120-5A or ESP 240-5A) or 16A (ESP 120-16A or ESP 240-16A). Note how the protector can also be earthed from its earth stud.



Connect in-line on supplies fused up to 5A (ESP 120-5A/BX or ESP 240-5A/BX) or 16A (ESP 120-16A/BX or ESP 240-16A/BX). Note how the protector can also be earthed from its earth stud.

To protect equipment inside a building from transients entering on an outgoing feed (eg to CCTV cameras or to site lighting) the protector should be installed as close to where the cable leaves the building as possible. Unless ready-boxed, protectors should be installed either within an existing cabinet/cubicle or in a separate enclosure.



To protect an outside CCTV camera, protection on the power supply (here an ESP 240-5A) is installed alongside video and telemetry line protection, on a CME 4 (mounting and earthing kit), inside a WBX 4/GS enclosure.

Suitable accessories

If several ESP 120-5A or 16A or ESP 240-5A or 16A protectors are to be installed together, or if one is in use alongside Lightning Barriers for video or signal lines, these can be simultaneously mounted and earthed on a CME kit and housed in a suitable WBX enclosure.

