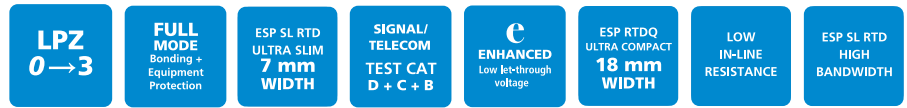


# Data & signal protection

## ESP RTD, RTDQ & SL RTD Series



Combined Category D, C, B tested protector (to BS EN 61643) suitable for 3-wire RTD systems to protect monitoring equipment. For use at boundaries up to LPZ 0 (ESP RTD & ESP RTDQ) or LPZ 0 (ESP SL RTD) to protect against flashover (typically the service entrance location) through to LPZ 3. Available as standard ESP RTD format, or compact ESP RTDQ and Slim Line ESP SL RTD versions for installations where a high number of lines require protection.

### Features & benefits

- Protects all three wires on a 3-wire RTD system with a single protector
- Very low let-through voltage (enhanced protection to IEC/BS EN 62305) between all lines - Full Mode protection
- Full Mode design capable of handling partial lightning currents as well as allowing continual operation of protected equipment
- Repeated protection in lightning intense environments
- Low in-line resistance minimizes reductions in signal strength
- Built-in DIN rail foot for simple mounting to top hat DIN rails
- Convenient earthing through DIN foot and/or earth terminal
- ESP RTD can be flat mounted on base or side
- ESP RTD and ESP RTDQ have colour coded terminals for quick and easy installation check
- ESP SL RTD has ultra slim 7 mm width ideal for compact protection of large numbers of lines (e.g. process control installations)
- ESP SL RTD includes two stage removable protection module with simple quick release mechanism allowing partial removal for easy line commissioning and maintenance as well as full removal for protection replacement

For further information on RTD applications, see separate Application Note AN001 (contact us for a copy).

### Installation

Connect in series with the signal line either near where it enters or leaves the building or close to the equipment being protected ensuring it is very close to the system's earth star

point. Install protectors either within an existing cabinet/cubicle or in a separate enclosure.

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### Accessories

Replacement module for ESP SL RTD:

#### ESP SLRTD/M

Standard module replacement

#### ESP SLRTD/B

Base replacement

Combined Mounting/Earthing kits for ESP RTD:

**CME 4** For up to 4 x ESP RTD

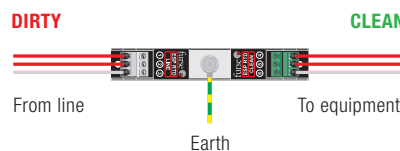
**CME 8** For up to 8 x ESP RTD

**CME 16** For up to 16 x ESP RTD

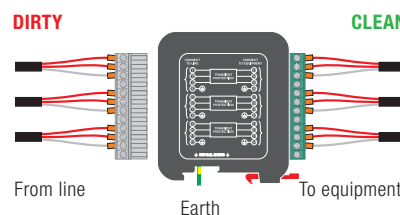
**CME 32** For up to 32 x ESP RTD

Full product range order codes can be found on pages 17/8-17/9

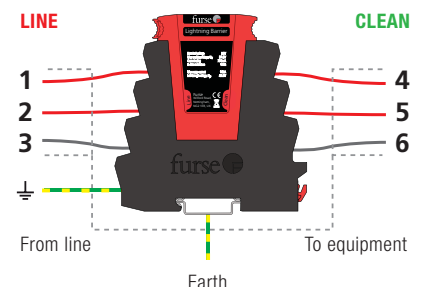
ESP RTD installed in series



ESP RTDQ installed in series (in-line)



ESP SL RTD installed in series



**NOTE:** For 2-wire or 4-wire RTD applications, use one or two ESP 06D or ESP SL06 protectors respectively.