

## Data and Signal Protection

### Protect and avoid:

- ★ Major damage to electronics system and input circuitry
- ★ Costly systems downtime
- ★ Loss of signal sensors
- ★ Loss of transmissions

- ★ Ofel Approval NS/G/23/L/100005
- ★ Amelec Standard 10 year guarantee

### Features

- ★ LOCATION CATEGORY: C-High exposure level
- ★ EFFECTIVE PROTECTION: Less than twice the working voltage
- ★ TOTAL PROTECTION: Line to Line and Line to Earth
- ★ LOW IN-LINE RESISTANCE: Effective protection without signal degradation

### Technical Data

Rated discharge current	10kA per line, 20kA per Barrier (8/20 $\mu$ s)CCITT		
Response time	Less than 10 nano seconds		
Connection (line)	1.5mm <sup>2</sup> Stranded		
Working temp	-25°C to +70°C		
Earthing terminal	M6 stud		
Dimensions (mm)	W	H	D (Measured from base to stud tip)
	19	120	55
Fixing centres	109mm (base)	M4 clearance	
	105mm (side)	M4 clearance	

### Model Number & Specification

Unit type	Normal working Volts	Max working Volts	In-line resistance (+/-10%)	Max running current	Bandwidth (50 ohms) -3dB	Peak let through volts
ESP 06D	6V	7.79V	9.4 $\Omega$	300mA	800kHz	10.5V
ESP 15D	15V	19.0v	9.4 $\Omega$	300mA	2.5MHz	23.8V
ESP 30D	30v	31.1v	9.4 $\Omega$	300mA	4MHz	43.4V
ESP 50D	50V	58.0V	9.4 $\Omega$	300mA	6MHz	74.9V
ESP 06E	6V	7.79V	1.0 $\Omega$	1.25A	15MHz	10.8V
ESP 15E	15V	16.7v	1.0 $\Omega$	1.25A	>>10MHz	26.2V
ESP 30E	30V	36.7V	1.0 $\Omega$	1.25A	>>10MHz	44.3V
ESP 50E	50V	56.7V	1.0 $\Omega$	1.25A	>>10MHz	65.8V
ESP TN	★	145V	4.4 $\Omega$	300mA	15MHz	200V

- ★ Post transient recovery voltage >80V.

### Suitable for:

- ★ Telephone Lines
- ★ Telemetry
- ★ Signal Lines (Plant Sensors)
- ★ RS232, RS422, 4-20mA loops etc
- ★ Computer Interface Communication
- ★ Process Control
- ★ Remote Control Monitoring

### Installation

- ★ Compact size
- ★ High stacking density
- ★ Integral top hat DIN rail mounting
- ★ Base and side holes for flat mounting
- ★ CME kit; provides an easy to use means of both mounting and earthing larger numbers of units

### Wiring

