AMELEC
SIGNAL CONDITIONING

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

★ Oftel 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 (8/20µs)CCITT			
Response time	Less than 10 nano seconds			
Connection (line)	1.5mm² 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	9.4Ω	300mA	800kHz	10.5V
ESP 15D	15V	19.0v	9.4Ω	300mA	2.5MHz	23.8V
ESP 30D	30v	31.1v	9.4Ω	300mA	4MHz	43.4V
ESP 50D	50V	58.0V	9.4Ω	300mA	6MMHz	74.9V
ESP 06E	6V	7.79V	1.0 Ω	1.25A	1.5MHz	10.8V
ESP 15E	15V	16.7v	1.0 Ω	1.25A	>>10MHz	26.2V
ESP 30E	30V	36.7V	1.0 Ω	1.25A	>>10MHz	44.3V
ESP 50E	50V	56.7V	1.0 Ω	1.25A	>>10MHz	65.8V
ESP TN	★	145V	4.4Ω	300mA	15MHz	200V

★ Post transient recovery voltage >80V.

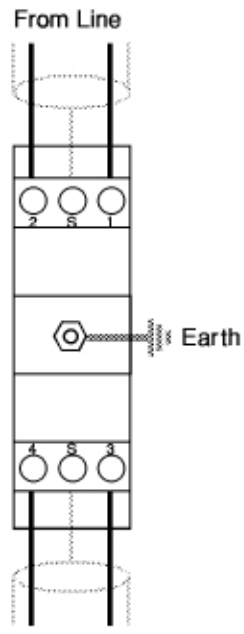
Suitable for:

- ★ 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



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