



## DC Signal Line Surge Protector

### TSP15M Series



TSP15M-P-24D3

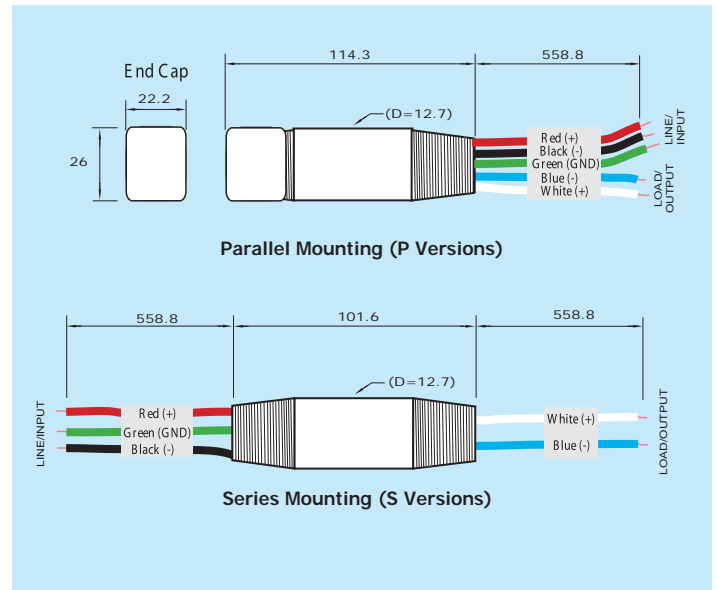
The CITEL TSP15M has been designed to protect sensitive electronic equipment against the harmful effects of overvoltage transients originating through the field wiring.

Its multistage hybrid circuit incorporates a CITEL Gas Discharge Tube (GDT) that enables the TSP15M to react uniquely fast and protect against surge current impulses up to 15kA.

The TSP15M offers two mounting configurations through any 1/2" NPT conduit and can be directly mounted through any unused port on the measurement transducers.

The TSP15M offers Common Mode and Differential Mode protection diverting harmful transient energy to ground while maintaining a tight clamp at the peak voltage. Ideal for 4-20mA current loop transducers or similar instrumentation/control applications.

### Dimensions (mm)



- 1 pair protection
- Modes of protection L-L, L-G
- Conduit Mounting
- Direct Transducer Mount
- 10 Year Limited Warranty
- Response time <5ns

### Characteristics

CITEL Number	TSP15M-P-24D3	TSP15M-S-24D3	TSP15M-P-48D3	TSP15M-S-48D3
Application	Leased Line 4-20mA	Leased Line 4-20mA	ISDN-TO 48V Line	ISDN-TO 48V Line
Configuration	Parallel	Series	Parallel	Series
Nominal line voltage (Un)	24 Vdc	24Vdc	48Vdc	48Vdc
Max. line voltage (Uc)	32 Vdc	32Vdc	54Vdc	54Vdc
Max. line current	300 mA	300 mA	300 mA	300 mA
Protection level (Up) 8/20µs impulse - 5 kA	38 Vdc	38 Vdc	82 Vdc	82 Vdc
Nominal discharge current (In) 8/20µs impulse - 10 times	5 kA	5 kA	5 kA	5 kA
Max. discharge current (Imax) 8/20µs impulse - 1 time	15 kA	15 kA	15 kA	15 kA
End of Life	Short-Circuit	Short-Circuit	Short-Circuit	Short-Circuit
Mechanical specifications	Conduit mounting Temperature : -55°C to 85°C Connection by #16 AWG Tinned Copper wires Housing material : Stainless Steel type 316L Earth connection via #16 AWG ground wire Weight : 363g (0.8lbs)			

### Electrical Diagram

