

TSP10 SERIES

Surge Protection Devices

Transient Voltage Surge Suppression for discrete signalling 4-20mA protocols. Units provide protection against any Transient Voltage that exceeds the nominal signalling voltage. Each line is protected against surge current impulses up to 10kA.

The TSP10 Series is configured to work in series or parallel with the measurement/control lines being protected, diverting harmful transient energies while maintaining a tight clamp at the peak voltage. TSP10 Signalling units protect 1 circuit consisting of 2 wires (1 pair) plus ground.

Units are designed to operate in a wide temperature range and are ideal for the protection of 4-20mA current loop transducers, and similar instrument/control applications.

Consult the factory with any special package and circuit performance requirements.

FEATURES

- ◆ Protection Design Utilizes 3 Stage Hybrid Circuit
- ◆ Maximum 2 Wire (1 wire pair) plus Ground Protection
- ◆ Clamping Voltage Depends Upon Application(s)
- ◆ Modes of Protection are L - L and L - G
- ◆ Grounding is Accomplished Through Green Wire only
- ◆ Conduit Mounting
- ◆ 10 Year Warranty

PERFORMANCE

- ◆ Response Time: < 1 nanosecond
- ◆ Maximum Surge Current Per Wire: 10kA
- ◆ Maximum Operating Voltage: 24 or 48VDC +/- 10%
- ◆ Maximum Operating Temperature Range: -55° to +85° C
- ◆ Series Resistance is 5.1 Ohms Per Line/Wire

MECHANICAL

- ◆ Dimensions (approx.): 4.5" H x 1.1" W x 1" D
- ◆ Enclosure Type: Stainless steel type 316L 1/2" conduit pipe and cap models with NPT threads
- ◆ Connection Method: #16 AWG Tinned Copper wires provided
- ◆ Weight: 0.75lbs

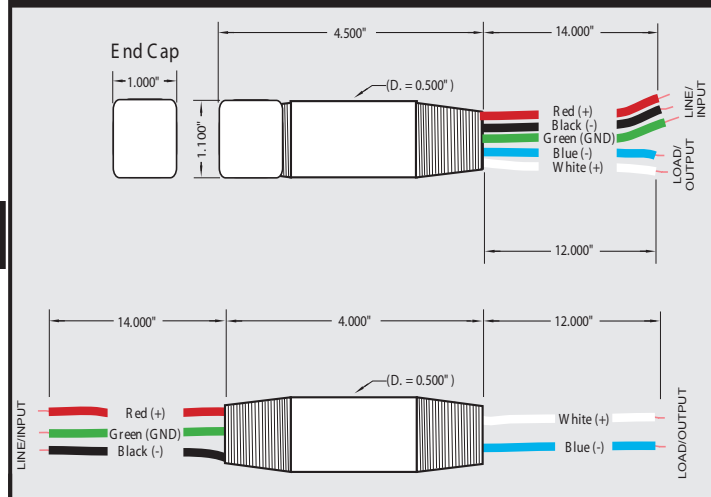
Specification Sheet

Special Signal Treaters

The TSP10 Series is offered in 2 configurations: a Cap version and a Feed Through version as shown...



INSTALLATION



ORDERING INFORMATION

Model Number	Unit Description
TSP10M-P-24V	24V Current Loop Protector (CAP) L leads
TSP10M-P-48V	48V Current Loop Protector (CAP) L leads
TSP10M-S-24V	24V Current Loop Protector (FT) L leads
TSP10M-S-48V	48V Current Loop Protector (FT) L leads



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