



Network Data Circuit protection device with Discrete All-Mode Protection



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The Series TP###CxSID-B devices are designed to protect standard telephone lines. These devices are intended for installation as close to the electrical power source of the equipment as possible so as to allow for a common grounding point.

This device is for circuits with up to 3 pair of signal lines connected via the modular terminal strips provided, making installation a breeze. A ground lug is provided on the side of the unit to insure a low impedance ground discharge path.

The unique design of these devices makes them among the most versatile SPD devices on the market with superior performance specs and a warranty that is second to none.

GENERAL	
Description:	Series wired transient voltage surge suppressor with encapsulated Optimal Response Network™ circuitry for protection of data/signal type circuits.
Application:	Standard 3002/C2 unconditioned voice grade lines, fax lines, modem lines and ISDN lines to protect data transmission system equipment from damaging transients generated outside of the facility.
Warranty:	25 Years Unlimited Free Replacement
Unit Listing:	Listed to UL497B

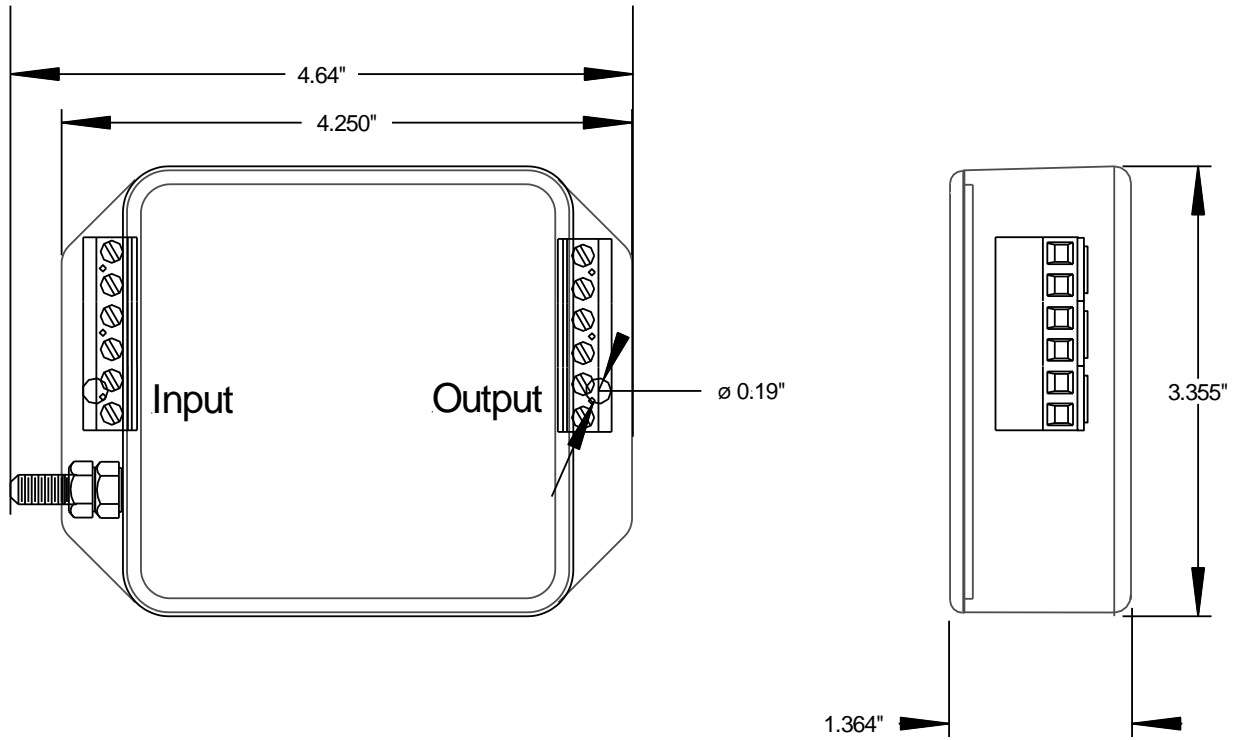
MECHANICAL	
Enclosure:	Plastic, UL94-5VA
Mounting:	DIN rail mounting foot
Connection Method:	Modular, wire clamping box terminals located at the input and output sides of the device. Wire size: Lines # 12-20 AWG, Ground # 6-12 AWG.
Shipping Weight:	< 1 lbs

CIRCUITRY	
Circuit Design:	Series wired design incorporating discrete all mode protection and utilizing our encapsulated Optimal Response Network™ design to provide lowest possible let-through voltages. All suppression circuits are encapsulated in our high dielectric compound to promote long component life and protection from the environment and/or vibration.
Protection Modes:	Dedicated protection components and circuitry for each mode. Discrete Tip-Ring (Normal Mode) and Tip/Ring-Ground (Common Mode)

PERFORMANCE	
Maximum Continuous Operating Voltage:	See Table
Maximum Continuous Operating Current:	5 A
Maximum Data Rate:	Up to 100 Mbps
Peak Surge Current per Pair:	150 A per mode (8 x 20 μsec)
Series Resistance:	0 Ohms per wire

**Let-Through Voltages Using ANSI/IEEE C62.45 & C62.41.2 Test Environment:
Static, positive polarity. All voltages are peak ($\pm 10\%$).**

Model	Nominal System Operating Voltage (Vnom)	Mode	Maximum Continuous Operating Voltages	Maximum Continuous Operating Current	Peak Surge Current	10 x 1,000 μ s, Impulse waveform
TP5CnSID-B	5 V	T/R-G T-R	6 V 12 V	5 A	150 A	< 20 V < 40 V
TP12CnSID-B	12 V	T/R-G T-R	25 V 50 V	5 A	150 A	< 30 V < 60 V
TP24CnSID-B	24 V	T/R-G T-R	25 V 50 V	5 A	150 A	< 60 V < 120 V
TP48CnSID-B	48 V	T/R-G T-R	58 V 116 V	5 A	150 A	< 90 V < 180 V
TP140CnSID-B	140 V	T/R-G T-R	220 V 440 V	5 A	150 A	< 250 V < 500 V



Actual unit may vary from picture