DP##Ax-B
Data Line Models

Current Loop/Signal Line protection device with Discrete All-Mode Protection

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The DP Series devices are designed to protect data transmission, control, and signal line circuits. 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 point for grounding.

This device is for circuits with up to 3 pair of signal lines connected via the detachable 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 **O**ptimal **R**esponse **N**etwork™ circuitry for protection of data/signal type circuits.
Application:	Designed for use on data, signal, and control circuits to protect equipment from damaging transients generated between terminals and equipment in the data collection/transmission system.
Warranty:	**25 Years Unlimited Free Replacement**
Unit Listing:	UL497B

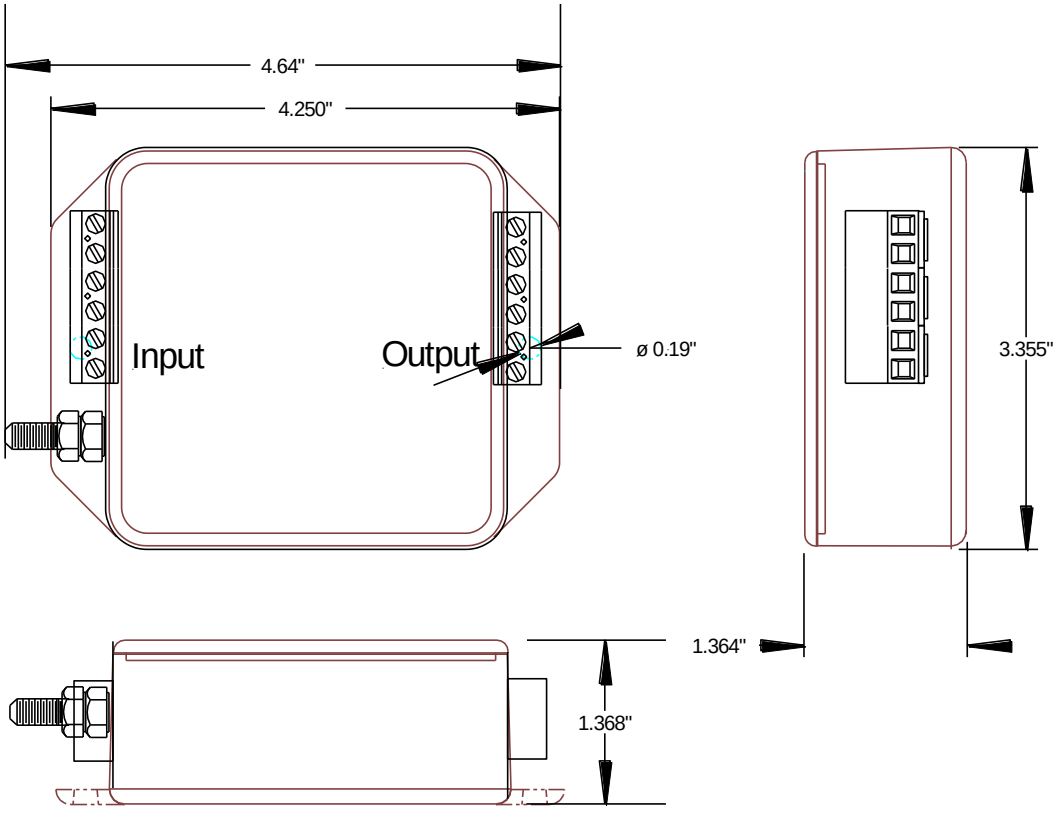
MECHANICAL	
Enclosure:	Plastic, UL 94-5VA
Mounting:	External mounting feet, DIN mounting foot (DIN option)
Connection Method:	Wire clamping detachable box terminals located at the input and output sides of the device. Wire size: Lines # 12-22 AWG, Ground # 6-12 AWG.
Shipping Weight:	**<** 1 lbs

CIRCUITRY	
Circuit Design:	Series wired design incorporating discrete all mode protection and utilizing our encapsulated **O**ptimal **R**esponse **N**etwork™ 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 each L-L (Normal Mode) and each L-G (Common Mode)

PERFORMANCE	
Maximum Continuous Operating Voltage:	See Table on back
Maximum Continuous Operating Current:	500 mA
Series Resistance:	5 Ohms per wire
Maximum Data Rate:	Up to 2 Mbps
Peak Surge Current per Pair:	L-L 10 kA, L-G 10 kA

Let-Through Voltages Using ANSI/IEEE C62.45 & C62-41.1 / C62-41.2 Test Environment: Static, positive polarity. All voltages are peak (±10%).					
Nominal System Operating Voltage (Vnom)	*** DP##Ax-B Operating Voltage Model Number**	**Maximum Continuous Operating Voltage (MCOV)**	**Maximum Continuous Operating Current (MCOC)**	**Test Mode**	**Cat. B Impulse Wave 6 kV, 3 kA**
0 > Vnom ≤ 6	DP5Ax-B	7.5 V	500 mA	L-G L-L	< 20 < 20
6 > Vnom < 15	DP12Ax-B	24V	500 mA	L-G L-L	< 30 < 30
15 ≤ Vnom < 32	DP24Ax-B	36 V	500 mA	L-G L-L	< 40 < 40
32 ≥ Vnom < 60	DP48Ax-B	62 V	500 mA	L-G L-L	< 80 < 80
60 ≥ Vnom ≤ 190	DP140Ax-B	200 V	500 mA	L-G L-L	< 220 < 220

*Notes: The lower case "x" is set to: 2, 4 or 6 to specify the number of terminals to be protected. Odd numbers of conductors require the use of the next higher even numbered model or an additional like model.



Actual unit may vary from picture