

D2PxxxBxDIN-B

Network Data Circuit protection device with Discrete All-Mode Protection



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The Series D2P devices are designed to protect data transmission circuits. These devices are intended for installation near the equipment to be protected and mounted as close to the equipment as possible so as to allow for a common point for grounding.

This device provides protection to all 4 lines (2 pairs) via the detachable terminal strip provided. A ground lug is provided on the top 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 Optimal Response Network™ circuitry for protection of data circuits.
Application:	Designed for use data, signal and current loop circuits to protect data transmission system equipment from damaging transients generated between terminals and equipment in the data collection/transmission system.
Warranty:	25 Years Unlimited Free Replacement
Unit Listing:	Listed to UL497B

MECHANICAL

Enclosure:	Plastic, UL 94-5VA
Mounting:	DIN rail mounting foot
Connection Method:	Wire clamping detachable box terminal. Wire size: Lines # 12-22 AWG, Ground # 6-12 AWG.
Shipping Weight:	< 1 lbs

CIRCUITRY

Circuit Design:	Series wired hybrid design incorporating discrete all mode protection and utilizing our 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 L-L (Normal Mode) and L-G, Shield-G (Common Mode)

PERFORMANCE

Maximum Continuous Operating Voltage:	7.5, 24, 36, 62, and 200 V
Maximum Continuous Operating Current:	500 mA
Series Resistance:	5 Ohms per wire
Maximum Data Rate:	10 Mbps
Peak Surge Current per Pair:	L-L 10 kA, L-G 10 kA

Let-Through Voltages Using ANSI/IEEE C62.45 & C62.41 Test Environment: Static, positive polarity. All voltages are peak ($\pm 10\%$).				
Model	Maximum Continuous Operating Voltages	Test Mode	Test Mode	B3/C1 Impulse Wave 6 kV, 3 kA (10 Mbps)
D2P5BxDIN-B	7.5 V 15 V	500 mA	L-G L-L	< 20 V < 40 V
D2P12BxDIN-B	24 V 48 V	500 mA	L-G L-L	< 30 V < 60 V
D2P24BxDIN-B	36 V 72 V	500 mA	L-G L-L	< 60 V < 120 V
D2P48BxDIN-B	62 V 124 V	500 mA	L-G L-L	< 90 V < 180 V
D2P140BxDIN-B	200 V 400 V	500 mA	L-G L-L	< 250 V < 500 V

