

CL2P###AxDIN-B

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



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The Series CL2P devices are designed to protect current loop process instrument, 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 2 pair of signal lines connected 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 encapsulated Optimal Response Network™ circuitry for protection of current loop and data/signal type circuits.
Application:	Designed for use on data, signal, current loop 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:	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 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 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 (10 Ohms loop)
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 Test Environment: Static, positive polarity. All voltages are peak ($\pm 10\%$).			
Model	Test Mode	Maximum Continuous Operating Voltage (MCOV)	Cat. B Impulse Wave 6 kV, 3 kA
CL2P5AxDIN-B	L-G	7.5 V L-G	< 20
	L-L	15 V L-L	< 40
CL2P12AxDIN-B	L-G	24 V L-G	< 30
	L-L	48 V L-L	< 60
CL2P24AxDIN-B	L-G	36 V L-G	< 60
	L-L	72 V L-L	< 120
CL2P48AxDIN-B	L-G	62 V L-G	< 90
	L-L	124 V L-L	< 180
CL2P140AxDIN-B	L-G	200 V L-G	< 250
	L-L	400 V L-L	< 500

Note: x = 2, 4

