Signal Control Loop Sensor Toll Free 888-471-1038 ph: 727-823-6100

Specifications for Fire Alarm Zone Protectors

• Connection: Terminal Board • Technology: Hybrid Circuit

> Multi-Stage Design Full Heat sinking

• Response: < 5 Nanoseconds -40° C $+85^{\circ}$ C • Operating Temperature: • Operating Environment Weather Proof

• Voltage: Voltage Sensitive • Current: Non Load-Bearing

• Clamping Point:

• Power Dissipation:

No Follow -On Current 15 or 30 or 64 Volts 2,000,000 Volt Amps /

Line

4,000,000 Volt Amps /

Line Pair

• Lines Protected: 1 Pair ("B" Zone) 2 Pair ("A" Zone)

• UL 497 listed • Tested to ANSI/IEEE B-3 Impulse

Fire Alarm Protectors FA 12V B and 30VB are surge protectors for "B" type zones or loops of either 12-volt or 24-volt. Protectors are 3-stage with primary and secondary protection that will greatly reduce false alarms caused by lightning and will protect the equipment. Units are encapsulated with a heat dissipating epoxy, which greatly enhances component performance.



Fire Alarm Class A is 2 Pair, Class B is 1 Pair FA 12VA 12V"A" Zone Protector 2 Pair 12V"B" Zone Protector 1 Pair FA 12V B 24V"A" Zone Protector 2 Pair FA30VA FA30VB 24V"B" Zone Protector - 1 Pair FA30VB-BH 24V+3 amps "BH" Bells Horns 1Pair 34.8V+"B" Zone Protector 1 Pair FA60VB 34.8V+ 3amps "B-NC" Bells Horns FA60VB-NC

In-line Series Hybrid Three Stage AC Surge Suppressor

LS-E120HWCP20CB

This Unique Product is designed to provide superior transient voltage surge protection & noise reduction for Branch Circuits, Fire Alarms, PLC, NC/CNC, Controls, Card Access, Gate Access, Telemetry, (2)units in a 120/120 240 single phase application for PLC or Computer related PC board power supply drawing no more the 20 amps per line. This unit will eliminate a high degree of noise coming in the AC power, caused by HVAC, Pumps, Motors and other noisy equipment that can cause false alarms especially on Fire Alarm panels, or harmful effects affecting the performance of the PC board.

Specifications – Operating

Maximum Operating Voltage 135 Volts Follow on current none Circuit Breaker 20 amps

Connection In-Line series Hardwired

-20 • to 60 • C Operating Temperature Maximum Surge Current (8 x 20us) 300KVA Maximum Surge Voltage (1.2 x50us) 20K Volts

TVSS Device ETL File 4009979

UL 14493rd ed MCOV Rating 150 Volts L/N, L/G

Clamping Point 138 Volts RMS, 198V Peak

Clamping Response Time <5 nanoseconds

Maximum Line Amperage 20 Amps @120 VAC 45/60Hz



VPR Rating L-N 600V, L-G 500V

SCCR 100KA

Power Dissipation (8x 20us) 3000 Joules, or 12,000KVA

Failure Mode Fails Safe (open) UL 1449 3rd edition Fails Safe (open) UL 1449 3rd edition Reverse Polarity Mode Depth: 2.5", Width: 4.5" Length 5" Dimensions (4) .5" tabs & (2) $\frac{1}{2}$ " nipples Mounting

P/N/G(3)wire Line in,(3)wire load out Installation Weight Approximately 2.0 Pounds

6000V @ 3000amps 8 x20 us 220V Peak P/N, 265VPK P/G, 207 VPK N/G ANS/IEEE Cat. B3

Conforms to ANSI/UL Standards 1449 3rd Edition Type 2 SPD

Click to Index Click to Page 30 Page 29 Click to Page 28 Surge Suppressors