

**CAT5-75—CATEGORY 5E SOLID-STATE BUILDING ENTRANCE PROTECTORS**

Modular Protection



*Features*

- UL Listed for Primary (497) and Isolated Loop (497B) applications.
- Exceeds TIA/EIA Standards 568 and 758 for category 5e performance.
- Solid-state protection provides the fastest response to transient voltages (1–5 nanoseconds) by quickly diverting damaging surges to ground.
- Use between buildings in a campus environment as a building entrance protector or in hostile industrial applications as an isolated loop protector.
- **Expandable System Protection**—towerMAX Series Base Units and Modules can be attached to expand system protection as your system grows.
- **Lifetime Product Warranty**—This surge protector shall be free of any defects in design, materials, or workmanship, or ITW Linx will repair or replace the defective product.
- **\$50,000 Connected Equipment Warranty**—This ITW Linx product will protect your equipment or we will repair or replace it up to \$50,000!

*Technical Specifications*

*Designs and specifications are subject to change without notice due to product improvement.*

**PRODUCT SPECIFICATIONS:**

Agency Approval . . . . .	UL Primary (497) and Isolated Loop (497B)
LED Indicators . . . . .	N/A
Grounding Requirements . . . . .	Uses Electrical AC ground, . . . . . for use with towerMAX Series AC Base Units. . . . . See Technical Reference page 106–107 for additional grounding tips.
Recommended Ground Impedance . . . . .	< 0.5 Ohm
Width . . . . .	4.25"
Height . . . . .	4.25"
Depth . . . . .	1.5"
Weight . . . . .	0.42 lbs
Product Warranty . . . . .	Lifetime
Connected Equipment Warranty . . . . .	Up to \$50,000



For up-to-date warranty information see our web site: [www.itwlinx.com](http://www.itwlinx.com)



**AC SURGE PROTECTION:**

SurgeGate Plus Circuitry . . . . .	N/A
Protect or Disconnect Circuitry . . . . .	N/A
Thermal Fusing . . . . .	N/A
Catastrophic Surge Circuit . . . . .	N/A
Over/Undervoltage Voltage Protection . . . . .	N/A
Overvoltage Voltage Shutoff . . . . .	N/A
Undervoltage Voltage Shutoff . . . . .	N/A
Single Pulse Energy Dissipation . . . . .	N/A
Peak Impulse Current . . . . .	N/A
EMI/RFI Noise Filtration . . . . .	N/A
Line Voltage . . . . .	N/A
Initial Clamping Level . . . . .	N/A
Clamping Level . . . . .	N/A
Protection Modes . . . . .	N/A
Maximum Current Rating . . . . .	N/A
Response Time . . . . .	N/A
Plug Configuration . . . . .	N/A
Number of Outlets . . . . .	N/A
Switched Outlets . . . . .	N/A
Cord Length . . . . .	N/A

**SIGNAL LINE SURGE PROTECTION:**

**TELCO CIRCUIT PROTECTION**

Signal Perfect Circuitry . . . . .	Yes
Fuseless/Auto-Resettable . . . . .	Yes
Clamping Level . . . . .	75V
Response Time . . . . .	1–5 Nanoseconds
Capacitance . . . . .	< 20pF
Suppression Modes . . . . .	Metallic & Longitudinal
Wires Protected . . . . .	4-pairs
Termination Type . . . . .	110 Punchdown or RJ-45

**COAX CIRCUIT PROTECTION**

Signal Perfect Circuitry . . . . .	N/A
Fuseless/Auto-Resettable . . . . .	N/A
Response Time . . . . .	N/A
Termination . . . . .	N/A
Antenna/Cable Lines Protected . . . . .	N/A
Antenna/Cable Clamping Level . . . . .	N/A
Antenna/Cable Attenuation . . . . .	N/A
Satellite Lines Protected . . . . .	N/A
Satellite Clamping Level . . . . .	N/A
Satellite Attenuation . . . . .	N/A

**LAN CIRCUIT PROTECTION**

Signal Perfect Circuitry . . . . .	Yes
Fuseless/Auto-Resettable . . . . .	Yes
Performance Rating . . . . .	Cat 5e
Clamping Level . . . . .	75V
Response Time . . . . .	1–5 Nanoseconds
Capacitance . . . . .	< 20pF
Wires Protected . . . . .	4-pairs
Termination Type . . . . .	110 Punchdown or RJ-45



More information is available in the Technical Reference section of this catalog, turn to page 92.

*Ordering Information*

ITW Linx Part Number	Description	Termination Type
<b>CAT5-75</b>	Protects high-performance 4-pair Category 5e Outside Plant Cables as well as Category 5e UTP cables for voice or ISDN low-voltage (digital, 75V) applications.	110 Punchdown
<b>CAT5-75-RJ45</b>	Protects high-performance 4-pair Category 5e Outside Plant Cables as well as Category 5e UTP cables for voice or ISDN low-voltage (digital, 75V) applications.	RJ-45

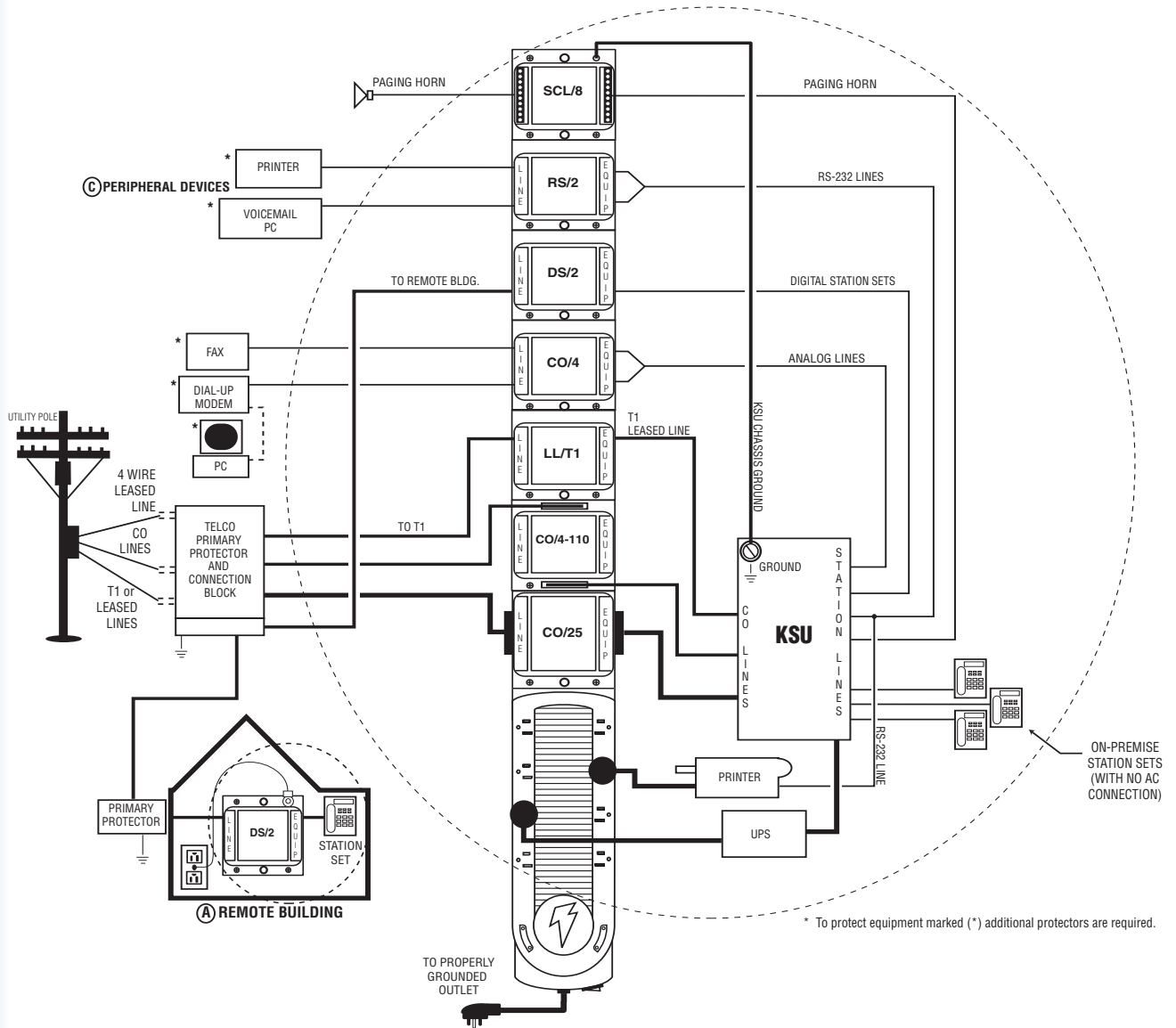
Both protectors can be used for end-span POE applications where power and data are on the all 4-pairs.



Surge Protection Solutions

*Applications:*

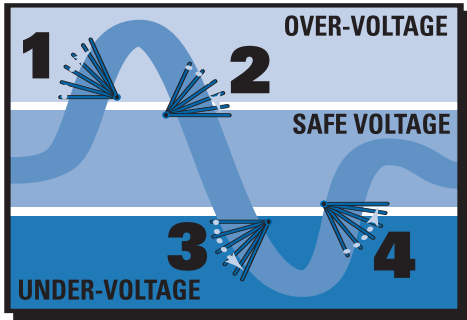
- Telephone Systems
- Cameras
- Access Controls
- Alarms
- Networks



**ITW LINX INNOVATIVE PROTECTION CIRCUITRY FEATURING:**

*SurgeGate Plus Circuitry*

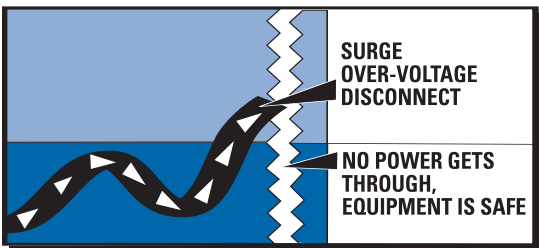
Protects against prolonged overvoltages and undervoltages by automatically disconnecting the power to your equipment, then reconnecting it when the power has returned to a safe level. This patented circuitry acts as a gate to prevent unsafe voltages from damaging sensitive equipment.



- 1.) Overvoltage **DISCONNECT**
- 2.) Safevoltage **RECONNECT**
- 3.) Undervoltage **DISCONNECT**
- 4.) Safevoltage **RECONNECT**

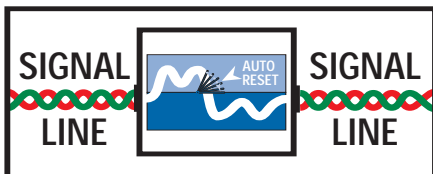
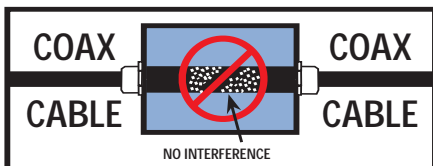
*Protect or Disconnect Circuitry*

Protects equipment against all surges. In the event of a catastrophic surge such as lightning, it completely disconnects AC power to the connected equipment and to the protector.



*Signal Perfect Circuitry*

Auto-resetting surge protection for data networks, telephone and coax lines. This optimized circuitry ensures a clean, clear signal and features solid-state suppressors for maximum protection and reliability.



**Technical Reference**  
**Circuit Technologies**