

LX—VOICE / HIGH-SPEED DATA SERIES 2 K110 BLOCK SURGE PROTECTORS

Series 2 K110 Block Protection



Features

- **UL Listed Primary 497 (LX1) and UL Listed Secondary 497A (LX2, LX3, LX4).**
- **Solid-state Protection**—Provides the fastest response to transient voltages (1–5 nanoseconds) by quickly diverting damaging surges to ground and resetting.
- **Single Pair Protection**—Scale the protection to the system size. Protect only the lines requiring protection.
- **Streamlined Installation**—Press fit protectors to either Series 2 K110 (10-pair) blocks or Series 2 K110 (25- / 50-pair 89D blocks).
- **Cost Savings**—Eliminate expensive five-pin blocks while using economical Series 2 K110 Blocks.
- **Optimum Protection**—Available in a number of voltage ratings to match system operating voltages.
- **Lifetime Product Warranty**—For up-to-date warranty information visit: itwlinx.com

Technical Specifications

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

PRODUCT SPECIFICATIONS:

| | |
|------------------------------|--------------------------------------|
| Agency Approval | UL Primary 497 and UL Secondary 497A |
| LED Indicators | N/A |
| Grounding Requirements | Field installed solid cooper wire |
| | for Primary 1–6 pairs 10 AWG |
| | for Primary 7–50 pairs 6 AWG |
| | for Secondary 1–6 pairs 14 AWG |
| | for Secondary 7–50 pairs 6 AWG |
| Recommended Ground Impedance | < 0.5 Ohm |
| Fuse Rating | 500mA |
| PTC Rating | N/A |
| Applications | Voice / fax / modem lines |
| Width | 0.70" |
| Height | 1.31" |
| Depth | 0.37" |
| Weight | 0.01 lbs |
| Product Warranty | Lifetime |
| Connected Equipment Warranty | N/A |

SIGNAL LINE SURGE PROTECTION:

OVER VOLTAGE CIRCUIT PROTECTION (LX1, LX2 & LX3)

| | |
|-------------------------------|-----------------------------------|
| Signal Perfect Circuitry | Yes |
| Auto-Resettable | Yes |
| Clamping Level | 30V, 75V, 235V or 270V (LX1 Only) |
| Response Time | 1–5 Nanoseconds |
| Insulation Resistance | > 100 MOhms |
| On-state Voltage (typical) | 3V @ I _t of 1 amp |
| Repetitive Peak Pulse Current | 250 amps maximum @ 8 × 20μS |
| | 150 amps maximum @ 10 × 160μS |
| | 80 amps maximum @ 10 × 1000μS |
| Holding Current | 150mA |

OVER CURRENT CIRCUIT PROTECTION (LX2 & LX3)

| | |
|---|---------------------|
| Signal Perfect Circuitry | Yes |
| Auto-Resettable | No |
| Current Rating | 0.5 Amps |
| Operating Time @ 100% I _{rating} | 4 hours minimum |
| Operating Time @ 250% I _{rating} | 120 seconds maximum |
| Series Resistance | 1 ohm maximum |
| Resistance Imbalance | 0.5 ohms maximum |

For up-to-date warranty information see our web site: www.itwlinx.com



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

Applications:

- Telephone Systems
- Fax Machines
- Cameras
- Access Controls
- Alarms

Ordering Information

| ITW Linx Part Number | Description | Performance | Clamping Voltage |
|----------------------|---|-------------------------|------------------|
| LX1-75 | Primary Protector, UL Listed Per 497 | 1 MHz | 75V |
| LX1-270 | Primary Protector, UL Listed Per 497 | 1 MHz | 270V |
| LX2-30 | Secondary Protector, UL Listed Per 497A | 250 kHz | 30V |
| LX2-75 | Secondary Protector, UL Listed Per 497A | 250 kHz | 75V |
| LX2-235 | Secondary Protector, UL Listed Per 497A | 250 kHz | 235V |
| LX3-30 | Secondary Protector, UL Listed Per 497A | 100 MHz | 30V |
| LX3-75 | Secondary Protector, UL Listed Per 497A | 100 MHz | 75V |
| LX3-235 | Secondary Protector, UL Listed Per 497A | 100 MHz | 235V |
| LX4 | Secondary Protector, UL Listed Per 497A | Sneak Current Protector | |

UltraLinx