

## SYSTEM FEATURES



- Provides surge protection against harmful transients traveling on power and communications lines.
- Compact footprint allows for installation flexibility
- 10-Year Unlimited Free Replacement Warranty
- Four, Twelve and Twenty Four wire units.
- 36V configuration.
- Install on data and signal lines with a max data rate of 500kbps.

## PRODUCT SPECIFICATIONS

### GENERAL SPECIFICATIONS

**Maximum Rated Surge Current:** 6kA per pair  
**Applications:** RS232, RS422/423/485 data and signal lines, Protect low voltage side of lighting processor (36 volt systems)  
**Design:** Multistage hybrid fail-safe design  
**Warranty:** 10-Year Unlimited Free Replacement

### ELECTRICAL SPECIFICATIONS

**Strength:** 6kA per pair; 3kA per wire  
**Mode of Protection:** Line-line and line-ground.  
**Response Time:** < 1 nanosecond  
**Number of Protected Wires:** All wires  
**Series Resistance:** <0.1 ohm

### MECHANICAL SPECIFICATIONS

**Dimensions (approx):**  
**TK-CT2-VAN24:** 3.94"H x 2.80"W x 2.78"D  
**TK-CT2-VAN12:** 3.94"H x 2.80"W x 2.28"D  
**TK-CT2-VAN4:** 4.38"H x 2.89"W x 1.23"D  
**Enclosure Type:** High-impact, non-metallic UL 94-5V flame resistant rated  
**Connection Method:** Screw terminal connector; #12-30 AWG  
**Mounting Method:** All units come standard with a universal mounting bracket that allows the units to be screw down or Din-Rail mounted.  
**Operating Temperature:** -40° C to 85° C (-40° F to 185° F)  
**Weight:** 0.50 lbs.—0.75 lbs. (0.23 kg—0.34 kg) depending on number of circuits.

### LIT PERFORMANCE SPECIFICATIONS

Model Number	Protection Mode Per Wire	System Voltage	Max Data Rate	Max Amperage	Application
TK-CT2-VAN24 (24 Wire)	L1	36V	500kbps	5 Amps	Power/Communication
	L2	36V	500kbps	5 Amps	Power/Communication
	L3	36V	500kbps	5 Amps	Power/Communication
	L4	36V	500kbps	5 Amps	Power/Communication
TK-CT2-VAN12 (12 Wire)	L1	36V	500kbps	5 Amps	Power/Communication
	L2	36V	500kbps	5 Amps	Power/Communication
	L3	36V	500kbps	5 Amps	Power/Communication
	L4	36V	500kbps	5 Amps	Power/Communication
TK-CT2-VAN4 (4 Wire)	L1	36V	500kbps	5 Amps	Power/Communication
	L2	36V	500kbps	5 Amps	Power/Communication
	L3	36V	500kbps	5 Amps	Power/Communication
	L4	36V	500kbps	5 Amps	Power/Communication

