

# **ComTrack** SLPseries

# **SYSTEM FEATURES**



· Provides surge protection against harmful transient voltages that exceed the nominal operating voltage of low speed data (50MHz max), communications and signal line protocols

- Each line is protected against surge current impulses up to 9kA/wire
- Fail-safe design
- UL Listed 497B as Isolated Loop Protector
- · Compact footprint and universal mounting bracket allows installation flexibility
- 10-Year Unlimited Free Replacement Warranty

## **PRODUCT SPECIFICATIONS**

#### **GENERAL SPECIFICATIONS**

Maximum Rated Surge Current: 18kA per pair Applications: RS232, RS422/423/485 data, 4-20 mA current loop circuits, and signal lines Design: Multistage hybrid fail-safe design Warranty: 10-Year Unlimited Free Replacement Safety Listing: UL Listed 497B Isolated Loop Protector

## **ELECTRICAL SPECIFICATIONS**

Strength: 18kA per pair; 9kA per wire Mode of Protection: Line-line and line-ground. **Options:** 

Shield-ground protection - add suffix "S" (available for units with 2 to 4 wire) RJ-45 connectors - add suffix "RJ"

(available for units with 8 wires only) Response Time: < 1 nsec Number of Protected Circuit: 1-5 pair (2-10 wire) Series Resistance: 2.4 ohm

## **MECHANICAL SPECIFICATIONS**

Dimensions (approx): Two enclosure sizes depending on the number of circuits

Case A (1-2 pair): 2.885"H x 2.130"W x 1.130"D

Case B (3-5 pair): 4.375"H x 2.885"W x 1.230"D

Enclosure Type: High-impact, non-metallic UL 94-5V flame resistant rated

Connection Method: Screw terminal connector; #12-22 AWG

Mounting Method: All units come standard with a universal mounting bracket that allows the units to be screw or Din-Rail mounted (horizontally or vertically). 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





## SLP PERFORMANCE SPECIFICATIONS

Model Number	Protection Mode	MCOV (peak)	Maximum Operating Frequency	Max Data Rate	Let-Through Volt IEC 10 x 700 µs Impulse 2kV / 80A	Let-Through Volt ANSI/IEEE C3 Impulse 20kV / 10kA
TK-CT-120SLPx	L-L L-G	130V 130V	50MHz	10Mbps	180V 180V 190V	160V 160V 160V
TK-CT-48SLPx	L-L L-G Shield C	56V 56V 56V	50MHz	10Mbps	65V 65V	62V 62V 62V
TK-CT-24SLPx	L-L L-G Shield-G	36V 36V 36V 36V	50MHz	10Mbps	38V 38V 38V	41V 41V 41V
TK-CT-15SLPx	L-L L-G Shield-G	18V 18V 18V 18V	50MHz	10Mbps	41V 41V 41V	39V 39V 39V
TK-CT-10SLPx	L-L L-G Shield-G	12V 12V 12V 12V	50MHz	10Mbps	24V 24V 24V	22V 22V 22V

All voltages are peak values (+10%). Test environment: static, positive polarity, time base = 1 ms

x = 2 for 2 wire, 4 for 4 wire, 6 for 6 wire, 8 for 8 wire and 10 for 10 wire  $^1$  values for units with shield option.

Specifications subject to change without notice, see web site, www.TPSsurge.com for latest revisions.

#### **SLP AVAILABLE CONFIGURATIONS**

Model Number	No of Wire	Applications	
TK-CT-120SLP21	2		
TK-CT-120SLP41	4		
TK-CT-120SLP6	6	120V Control/Signal Circuit	
TK-CT-120SLP8 <sup>2</sup>	8	C C	
TK-CT-120SLP10	10		
TK-CT-48SLP21	2		
TK-CT-48SLP41	4		
TK-CT-48SLP6	6	48V 4-20mA Current Loop	
TK-CT-48SLP8 <sup>2</sup>	8		
TK-CT-48SLP10	10		
TK-CT-24SLP21	2		
TK-CT-24SLP41	4	RS232 and 24V 4-20mA Current Loop	
TK-CT-24SLP6	6		
TK-CT-24SLP8 <sup>2</sup>	8		
TK-CT-24SLP10	10		
TK-CT-15SLP21	2		
TK-CT-15SLP41	4	Circuit rated at 15V or below such as RS485 Data	
TK-CT-15SLP6	6		
TK-CT-15SLP8 <sup>2</sup>	8		
TK-CT-15SLP10	10		
TK-CT-10SLP21	2		
TK-CT-10SLP41	4	4 Circuit rated at 10V or below 6 such as RS422, RS423	
TK-CT-10SLP6	6		
TK-CT-10SLP8 <sup>2</sup>	8		
TK-CT-10SLP10	10		

<sup>1</sup>Shield option available for 2-4 wire units – add "-S" suffix <sup>2</sup>RJ-45 option available for 8 wire units - add "-RJ" suffix

> **SLYN** For Technical Support TEL: (800) 604-9980 www.TPSsurge.com