

SYSTEM FEATURES



- Provides surge protection against harmful transient voltages that exceed the nominal operating voltage of communication systems
- Fail-safe design
- Each line is protected against surge current impulses up to 10kA/wire
- Compact footprint allows installation flexible
- 10-Year Unlimited Free Replacement Warranty

PRODUCT SPECIFICATIONS

GENERAL SPECIFICATIONS

Maximum Rated Surge Current: 10kA per wire
Applications: 4-20 mA current loops, signal lines, data lines, transducers, flow meters, and low voltage control circuits
Design: Multistage hybrid fail-safe design
Warranty: 10-Year Unlimited Free Replacement

ELECTRICAL SPECIFICATIONS

Strength: 10kA/wire
Mode of Protection: All modes: line-line, line-ground, and shield-ground
Response Time: < 1 nsec
Number of Protected Circuits: 1 (2 Wires)
Series Resistance: 4.5 ohm per wire

MECHANICAL SPECIFICATIONS

Dimensions (approx.): 4.25"H x 1.1"W x 1"D
Enclosure Type: Stainless steel type 316L 1/2" conduit pipe and cap models with NPT threads
Connection Method: #18 AWG Tinned Copper wire provided
Operating Temperature: -40° C to 85° C (-40° F to 185° F)
Weight: 1 lbs. (0.45 kg)

SCP 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
TK-CT-24SCP2	L-G	36V	2MHz	200kbps	50V
	Shield-G	36V			50V
TK-CT-48SCP2	L-G	56V	50MHz	10Mbps	62V
	Shield-G	56V			62V

All voltages are peak values (+10%).
 Test environment: static, positive polarity, time base = 1 ms/div
 Specifications subject to change without notice, see web site, www.TPSSurge.com for latest revisions.

SCP AVAILABLE CONFIGURATIONS

Model Number	No of Circuit	Applications
TK-CT-24SCP2-CAP	1	24V Current Loop Prewired with Capped One End
TK-CT-24SCP2-FT	1	24V Current Loop Prewired at Both Ends
TK-CT-48SCP2-CAP	1	48V Current Loop Prewired with Capped One End
TK-CT-48SCP2-FT	1	48V Current Loop Prewired at Both Ends

