

SPR-TM SERIES

INSTRUMENTATION/DATA LINE

SURGE SUPPRESSOR



RJ11 & RJ45 Versions available. See back page



FEATURES:

- ▶ Exceeds severity level 4 of IEC/EN 61000-4-4 (Provides 2.5 kA/Line of surge protection).
- ▶ Product family design allows a cost effective selection (mix and match) from one line pair to extensive multi-line applications.
- ▶ Differential protection for wire pairs.
- ▶ Simple installation to a wall or case.
- ▶ Unique multi-stage design provides the most effective suppression available and requires no additional secondary protection.
- ▶ Fast, direct wire termination to secure wire clamp terminals.
- ▶ This series can be used on analog or digital signal/data lines, RS-422, RS-485, and RS-232 lines.
- ▶ Space efficient protector is hermetically sealed and suitable for the most harsh industrial environments.
- ▶ Sub nanosecond response time stops failures due to lightning, spikes and over-voltage surges while minimizing other electrical noise.
- ▶ Superior protection at an affordable price.

Applications:

The SPR-TM Series is designed to protect measurement and process control equipment, 4-20 mA loop instrumentation, data processing, telecommunication equipment, etc.

Select the model according to the number of lines needing protection and the operating voltage found on the reverse side of this data sheet. Select from 2 pair to 10 pair or 20 individual lines

Ideally suited for multi-line applications where a concentration of data lines is found.

Typical Installation:

Screw mount the SPR-TM Series suppressor on any convenient surface. Connect each incoming line pair to the suppressor as indicated. Connect the facility ("clean") line pair(s) to the equipment and dress away from the incoming lines. The suppressor must be connected to a good earth ground. Keep the ground wire (#12 AWG or larger) short and place the suppressor as near to the equipment it is to protect as possible. Equipment ground and suppressor ground should be common.

SURGE CONTROL®
A PRODUCT OF CCI

SPR-TM SERIES OPERATING SPECIFICATIONS:

See note 3 for RJ11 & RJ45 versions

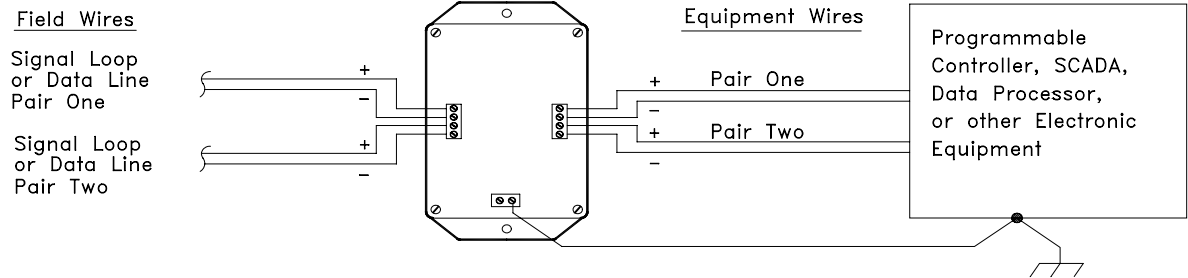
Specifications	SPR-XTM05	SPR-XTM14	SPR-XTM25	SPR-XTM28	SPR-XTM36	SPR-XTM50	SPR-XTM60
"RS" Applications	N/A	RS-422 RS-485	RS-232	N/A	N/A	N/A	N/A
Operating Voltage	5 Volts	12 Volts	24 Volts	28 Volts	36 Volts	50 Volts	60 Volts
Maximum Operation Voltage	6 Volts	14 Volts	27 Volts	30 Volts	38 Volts	55 Volts	67 Volts
Maximum Operating Current	200 mA	200 mA	200 mA	200 mA	200 mA	200 mA	200 mA
Clamping Action Turn-On	7.1 Volts	14.3 Volts	28.5 Volts	31.4 Volts	40.9 Volts	58.9 Volts	71.3 Volts
Maximum Clamping at 2 kA (8 x 20 µSec)	11 Volts	22 Volts	44 Volts	46 Volts	58 Volts	81 Volts	94 Volts
Maximum Surge Voltage	20 kV	20 kV	20 kV	20 kV	20 kV	20 kV	20 kV
Maximum Surge Current (8 x 20 µSec)	2.5 kA	2.5 kA	2.5 kA	2.5 kA	2.5 kA	2.5 kA	2.5 kA
Current Leakage/Line At Operating Voltage	500 µA	5 µA	5 µA	5 µA	5 µA	5 µA	5 µA
Capacitance/Line At Rated Voltage	4000 pF	2000 pF	500 pF	500 pF	400 pF	300 pF	200 pF
Response Time	Less than 1 nanosecond						
Operating and Storage Temperature	-40 degrees Celsius to +85 degrees Celsius						

Note 1: X = Select Model, i.e., 1 = 1 Pair (2 lines), 2 = 2 Pair (4 lines), 4 = 4 Pair (8 lines), 6 = 6 Pair (12 lines), 10 = 10 Pair (20 lines)

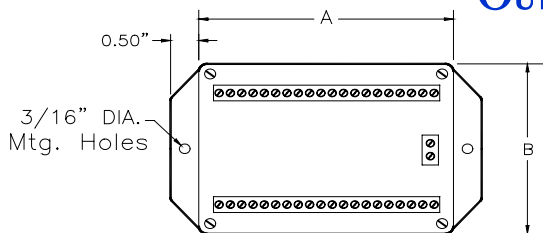
Note 2: For low capacitance (LC) version, consult with factory.

Note 3: RJ11 & RJ45 versions available for models 1,2, & 4. These versions are not UL listed. Add -RJ11 or -RJ45 for either version at the end of the P/N. All lines are protected

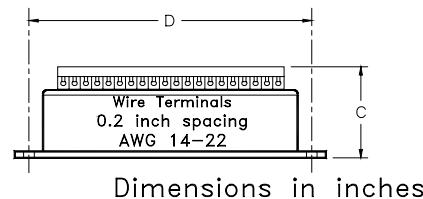
Typical Installation:



Outline Dimensions:



MODEL	A	B	C	D
SPR-1TM	3.30	2.40	1.55	3.80
SPR-2TM	3.30	2.40	1.55	3.80
SPR-4TM	4.20	2.80	1.55	4.70



MODEL	A	B	C	D
SPR-6TM	4.58	3.35	1.80	5.05
SPR-10TM	5.55	3.80	1.80	6.05

Circuit Components, Inc.
 2400 S. Roosevelt Street Tempe, AZ • 85282
 Tel: 480-967-0624 • Fax: 480-967-9385
 Email: info@surgecontrol.com • Website: www.surgecontrol.com

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