B&B ELECTRONICS

PRODUCT INFORMATION


# Model: 232SP9

# RS-232 Surge Protector CE

## Introduction

B&B Electronics' Model 232SP9 protects RS-232 ports from damage caused by large voltage peaks from lightning and other power problems. The Surge Protector uses 600W Transient Voltage Suppressors to protect all 9 pins. It has one DB-9 male and one DB-9 female connector with all 9 pins passing straight through. The TVSs are connected between the ground screw and pins 1,2,3,4,5,6,7,8, and 9. The 232SP9 will suppress any voltage levels above 12 volts without affecting the normal RS-232 data.

The 232SP9 is placed inline, between the data cable and the RS-232 port, as close to the protected port as possible. The ground screw must be connected to earth ground. A minimum of 12 AWG copper wire is recommended. B&B's Model CU15B is 1.5 x 0.016 in (38 x .25 mm) copper cut to length for ground connections that are longer than a few feet (one meter). If this device is not properly grounded it will not protect RS-232 lines.

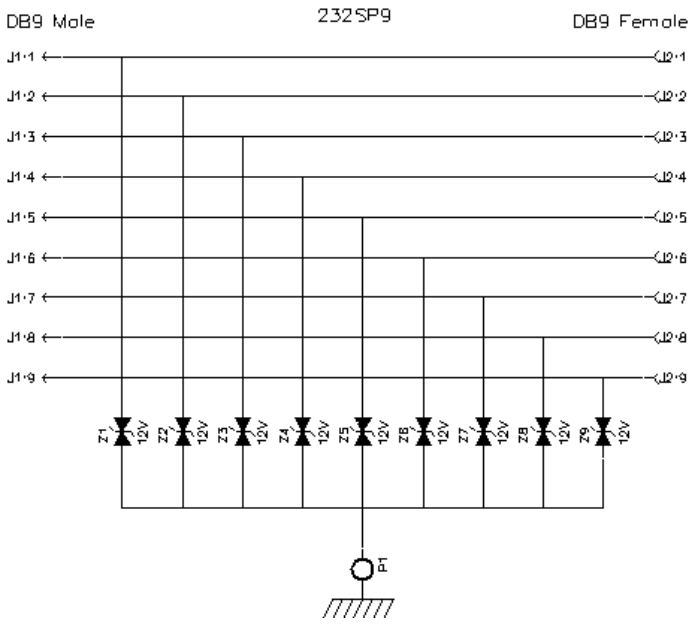
## Specifications

| | |
|---|---|
| Clamping Voltage: | 12 volts |
| Peak Pulse Power: | 600 watts @ 1 msec. |
| Response Time: | less than 1 picosecond |
| Typical Capacitance: | 200 picofarads |
| Ground Screw: | size 10# |

**DECLARATION OF CONFORMITY**

| | |
|---|---|
| Manufacturer's Name: | B&B Electronics Manufacturing Company |
| Manufacturer's Address: | P.O. Box 1040<br>707 Dayton Road<br>Ottawa, IL 61350 USA |
| Model Number: | 232SP9 |
| Description: | RS-232 Surge Protector |
| Type: | Light industrial ITE equipment |
| Application of Council Directive: | 89/336/EEC |
| Standards: | EN 50082-1<br>EN 61000 (-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11) |

Robert M. Paratore, Director of Engineering CE




B&B ELECTRONICS

*www.bb-elec.com* *orders@bb-elec.com* *support@bb-elec.com*

**International Office:** 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA 815-433-5100 Fax 433-5104
**European Office:** Westlink Commercial Park Oranmore Co. Galway Ireland +353 91 792444 Fax +353 91 792445