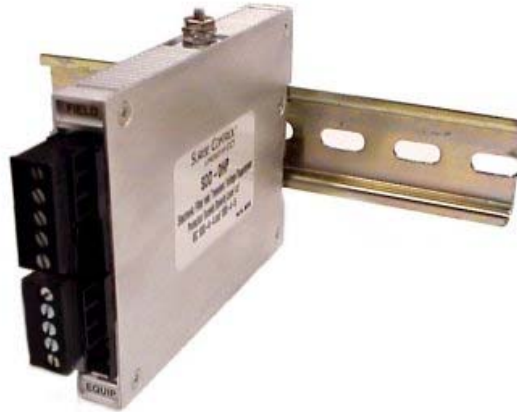


# SDD-DN

DIN-Rail MOUNT  
DEVICENET

SURGE SUPPRESSOR



---

## FEATURES:

- ▶ Vertical universal mounting on any standard DIN-Rail.
- ▶ Fast, direct wire termination to 6-position plug-in screw connector.
- ▶ Sub nanosecond response time stops failures due to lightning, spikes and over-voltage surges while minimizing other electrical noise.
- ▶ Two grounding options: DIN-Rail foot to grounded rail or screw post.
- ▶ Automatically resets after each transient. No maintenance is required.
- ▶ Unique multi-stage design provides the most effective suppression available and requires no additional secondary protection.
- ▶ Exceeds severity level 4 of IEC/EN 61000-4-4 (Provides 10 kA/line of surge protection).
- ▶ Space efficient protector is hermetically sealed and suitable for the most harsh environments

---

## Applications:

The SDD-DN is designed to protect programmable controllers, computers measurement and process control equipment and other equipment that communicates through DeviceNet networks.

Select the SDD-DHP DIN-Rail mount suppressor for Allen Bradley Data Highway Plus applications.

Select the SDP-120 Series for DIN-Rail 120VAC line protection.

Select the SDD-DH485 DIN-Rail mount suppressor for Allen Bradley DH-485 applications.

Panel-mount versions of all models are also available.

---

## Typical Installation:

Mount the SDD-DN suppressor on any standard DIN-Rail. Connect the incoming (field) power and data lines to the suppressor as indicated. Connect the protected lines to the equipment and dress away from incoming field lines. The suppressor must be connected to a good earth ground using either the DIN-Rail foot or the grounding post. Keep the ground wire (#12 AWG or larger) short and place the suppressor as near the equipment it is to protect as possible. Equipment ground and suppressor ground should be common.

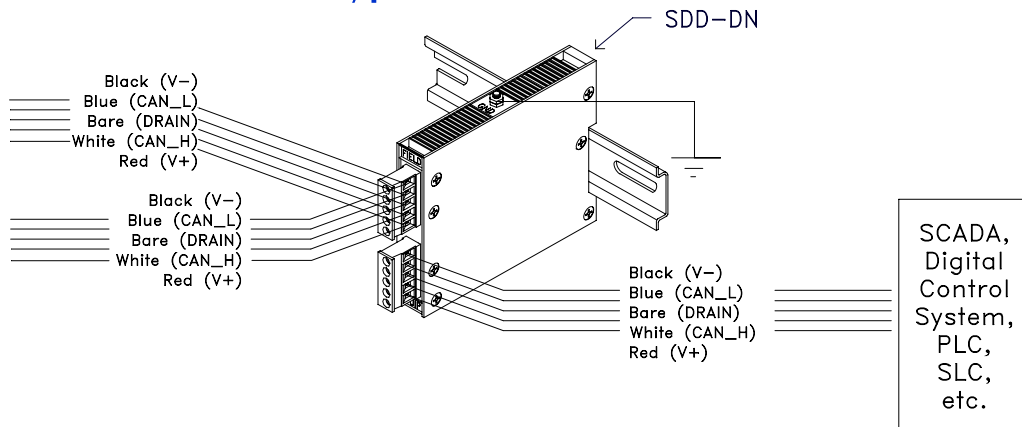
**SURGE CONTROL**®  
A PRODUCT OF CCI

## SDD-DN OPERATING SPECIFICATIONS:

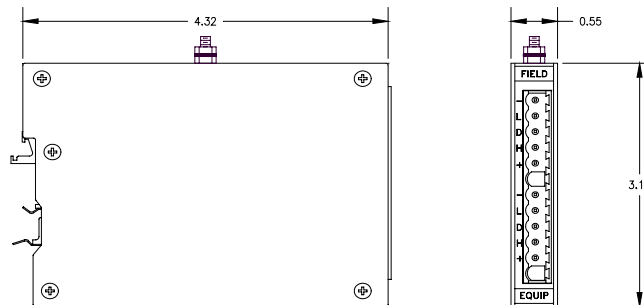
Specifications	24 Volt Power (V+)	Common	Data lines CAN_L and CAN_H	Shield
Operating Voltage	24 Volts	N/A	+/- 5 Volts per line	N/A
Maximum Operation Voltage	27 Volts	N/A	+/- 6 Volts per line	N/A
Maximum Operating Current	2 Amps		200 mA	N/A
Clamping Action Turn-On	28.9 Volts	6.4 Volts	7.1 volts	6.4 Volts
Maximum Clamping At 2 kA (8 x 20 µSec)	44 Volts	10 Volts	11 volts	10 Volts
Current Leakage/Line At Operating Voltage	10 µA max	500 µA		
Maximum Surge Voltage	20 kV			
Maximum Surge Current (8 x 20 µSec)	10 kA			
Capacitance/Line At Rated Voltage	100 pF Max			
Response Time	Less than 1 nanosecond			
Operating and Storage Temperature	-40 Degrees Celsius to +85 Degrees Celsius			

Note: Consult the factory for other applications and operating conditions and specifications. All specifications at 25 degrees Celsius.

### TYPICAL INSTALLATION:



### OUTLINE DIMENSIONS:



**Circuit Components, Inc.**  
 2400 S. Roosevelt Street Tempe, AZ • 85282  
 Tel: 480-967-0624 • Fax: 480-967-9385  
 Email: [info@surgecontrol.com](mailto:info@surgecontrol.com) • Website: [www.surgecontrol.com](http://www.surgecontrol.com)

**SURGE CONTROL**®  
 A PRODUCT OF **CCI**

This information is not intended to and does not create any warranties, expressed or implied, including any warranty of merchantability or fitness for a particular purpose. Circuit Components Inc. reserves the right to change specifications at any time without notice.