

SPM9620 Surge Protection Module



Product Introduction

The SPM9 Series Surge Protection Module is a core protection component specifically designed for industrial electrical systems. It integrates multi-stage surge absorption and discharge circuits, enabling rapid response to and suppression of transient overvoltages and surge currents in power supply lines or signal loops. It effectively protects critical equipment such as PLCs, sensors, servo drives, and signal transmitters from surge damage caused by lightning strikes, grid fluctuations, and inductive load switching.

The SPM9620 module incorporates a coordinated design of high-performance protection devices including MOVs, PPTCs, GDTs, and TVS. Combined with a protection structure featuring low let-through voltage and high energy absorption, it ensures that surge voltages are clamped to a safe range within milliseconds. With nanosecond-level response speed and high impact resistance, it significantly reduces equipment failure rates in harsh grid environments or industrial settings with frequent start-up/shutdown of high-power equipment. This extends the service life of control systems and ensures production continuity and operational safety.

This product requires an independent power supply and is designed for easy, flexible on-site installation using the standard DIN 35mm rail mounting method, making it suitable for various field applications.



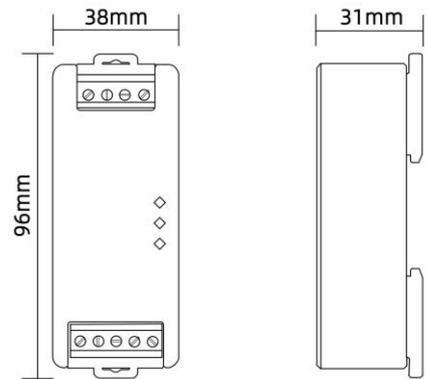
Technical Parameters

Basic Parameters	
Protection Methods	Connected in series between signal lines for protection.
Rated Power Supply Voltage	≤ 90V (Power Supply)
Communication Operating Voltage	≤ 8V (RS485 Communication)
Nominal Discharge Current	5KA
Maximum Discharge Current	10KA
Insertion Loss	≤0.3DB
Response Time	<25ns
Number of Protection Poles	2 Channel
Environmental Conditions	
Operating Temperature	-40°C~+80°C
Storage Temperature	-40°C~+85°C
Relative Humidity	10%~90%RH (non-condensing)
Atmospheric Pressure	80kPa~106kPa

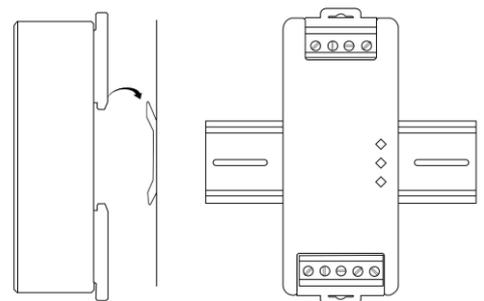
Terminal Description

Terminal Mark	Function Description
PE	Grounding (Earthing)
V+	First channel input power positive terminal
V-	First channel input power negative terminal
A+	Second channel input communication signal positive terminal
B-	Second channel input communication signal negative terminal
B1-	Second channel output communication signal negative terminal
A1+	Second channel output communication signal positive terminal
Vo-	First channel output power negative terminal
Vo+	First channel output power positive terminal

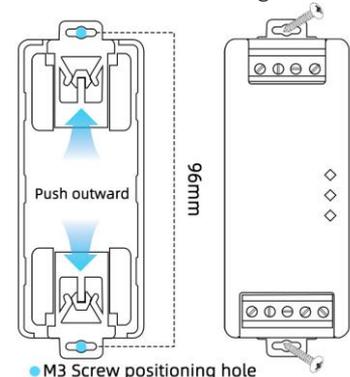
Product Dimensions



Installation Diagram

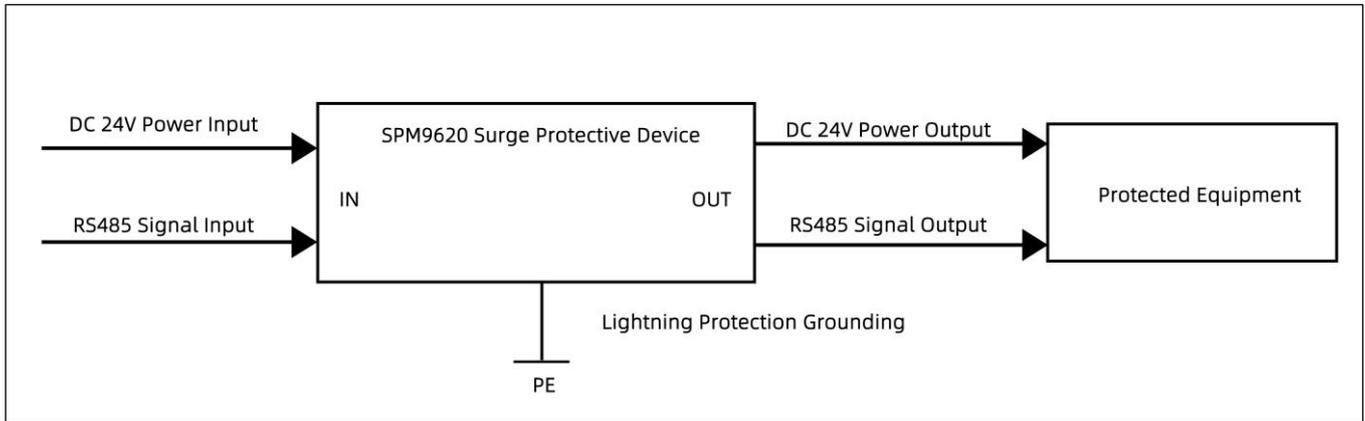


Installation method of guide rail -



Screw installation method -

• Module Operating Principle



• Wiring and indication

