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Make network communication more reliable

FL485

RS-485 Signal Surge Protector

- Support 1 RS-485 signal input and output, and provide 5kA surge protection
- Adopt multilevel protective circuit with quick response and low residual voltage output
- Response time is less than 1ns
- Applicable rate 1Mbps
- Metal housing, great sealing, and resistant to dust and corrosion
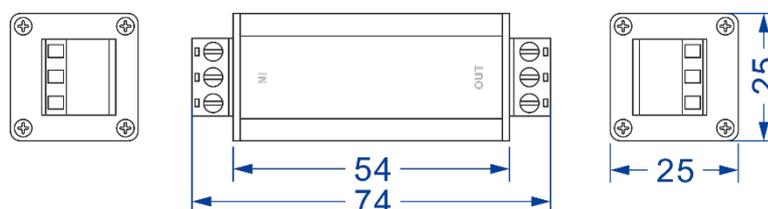
Introduction

FL485 signal surge protector is designed by IEC61000-4-5 and ITU-TK20&K21 standard. It adopts multilevel protective circuit and the newest high-speed surge protection device which has quick response, low residual voltage output and excellent transmission performance. The interface adopts standard industrial terminal blocks which is easy to use and suit for all lightning protection in RS-485 communication field.

FL485 signal lightning protector is designed and manufactured on the principle of discharge, limited current, clamping, stabilivolt. When signal wire gets an overvoltage and overcurrent shock, it will put lightning power or its jamming signal into the ground. Overvoltage restriction enables electrical equipment to operate safely within allowable range.

This product adopts metal housing and good sealing, which has anti-dust and anti-corrosion function. It adopts serials connection that can restrain high voltage pulse on the wire to prevent backend device from being damaged by lightning and industrial surge. It can be widely used in remote control and transmission of security monitoring device, digital public broadcast system, water/electricity/gas meter of intelligent community, instrument and all kinds of fields that use RS-485 industrial bus control.

Dimension

Unit:mm

Specification

Serial Port	Standard: EIA RS-485、IEC 61000-4-5、ITU-TK20&K21
	Serial port quantity: 1 RS-485 serial port input and output
	RS-485 signal: A, B
	Interface form: 3-pin industrial terminal blocks
	Impact and over-current withstanding: ≤5kA (8/20μs simulated lightning waveform)
	Operating voltage: 0~5V
	Limited voltage: ≤15V
	Applicable rate: 1Mbps

	Insertion loss: ≤0.5dB Response time: ≤1ns
Power Supply / Power Consumption	No
Environmental Limit	Operating temperature: -20~60℃ Storage temperature: -25~85℃ Relative humidity: 5% ~ 95% (no condensation)
Physical Characteristic	Housing: metal Dimension (W x H x D): 74mm×25mm×25mm Weight: 50g
Certification	CE, FCC, RoHS
Warranty	1 year

Ordering Information

Available Models	RS-485 (Input)	RS-485 (Output)	Power Supply
FL485	1	1	No