



CATALOG **SURGE PRTECTION**

Ethernet	Surge Protection
Video	Surge Protection
RS485	Surge Protection

Content



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BC-5010

10/100Mbps Ethernet Surge Protector



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BC-5052

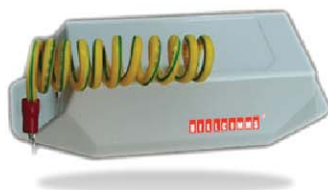
Video Surge Protector



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BC-5053

RS-485 Surge Protector



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BC-PV101

10/100/1000Mbps POE Surge Protection



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BC-S100POE

10/100Mbps POE Surge Protection (SPD)
Mode-B / Midspan

Ethernet Surge Protector

Features

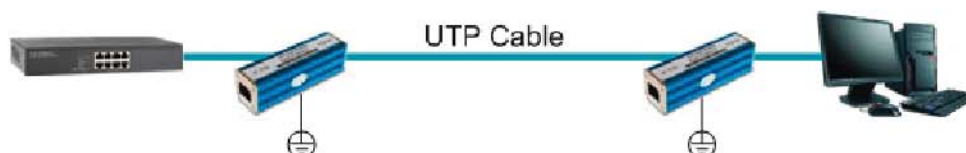
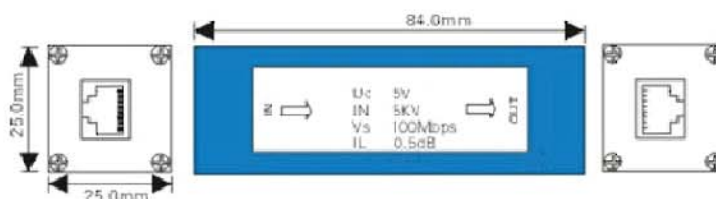
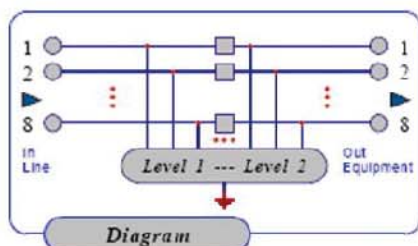
1. IEC61000-4-5 and ITU-TK20&K21
2. The high response surge arresters
3. Clamping voltage and low loss against high speed signal
4. Designed by theory of current limited and voltage clamped, discharged to ground
5. Standard:10Base-T/100Base-TX

Introduction

IEC61000-4-5 and ITU-TK20&K21 are the recognized standards for top quality surge protectors. It made by the high response surge arresters, the advantage allow clamping voltage and low loss against high speed signal, because it had a low capacitance. Designed to protect data communication lines in local and wide area networks up to 100Base-T transmission speeds.

Circuit Diagrams

Designed by the theory of current limited and voltage clamped, discharged to ground. When the data line exist surge, It is induced and worked, the lightning energy is discharged to ground, and the high surge voltage is clamped to low level, so our devices is protected.



Specification

Standard: 10Base-T/100Base-T standard
 10/100M signal: IEC6100-4-5 and ITU-TK20&K21
 Nominal discharge current(In): 5 KA(8/20μS)
 Maximum Surge Protection Voltage: 4,500V or 4.5KV
 Working voltage: 0-5V
 Limit voltage: ≤40V
 Apply Band rate: 100Mbps
 Connector: RJ45 (F)
 The line of protection: 4 lines (1, 2, 3, 6)
 Insert consumption: ≤0.5dB
 Delay time: ≤1ns (Surge Protection attack time)
 Working temperature: -20 to 60°C
 Storage temperature: -25 to 85°C
 Humidity: Relative humidity 5% to 95% No power supply needed,
 No consumption
 L×W×H: 72mm×42mm×25mm
 Shell: Alnico
 Color: Blue
 Weight: 10g
 Standard Compliance: FCC, CE, RoHS

Application

Usually is use in protecting the following device as below
 Ethernet Exchange
 Ethernet HUB or Switch
 Router
 Computer
 Industrial control Device
 Net Server for Video system

Order part Number

BC-5010 Ethernet Surge Protector

▶ Video Surge Protection

Features

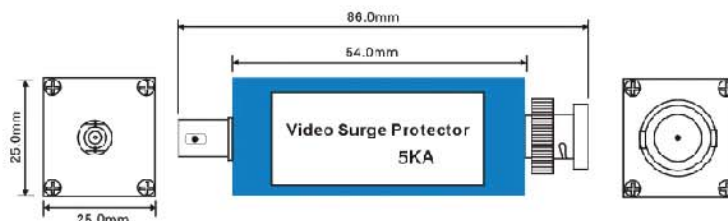
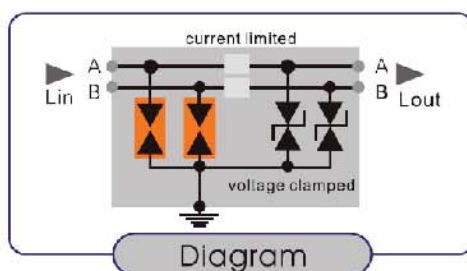
1. IEC61000-4-5 and ITU-TK20&K21
2. Clamping voltage and low loss against high speed signal
3. Low capacitance. Designed to protect the equipment and coaxial line, connect in series
4. Interface accord with BNC standard
5. Body steel
6. ISO9001 factory

Introduction

IEC61000-4-5 and ITU-TK20&K21 are the recognized standards for top quality surge protectors, It made by the high response surge arresters, the advantage is allowed clamping voltage and low loss against high speed signal, because it had a low capacitance. Designed to protect the equipment and coaxial line, connect in series. Interface accord with BNC standard.

Circuit Diagrams

Designed by the theory of current limited and voltage clamped, discharged to ground. When the signal line exist surge, it is induced and worked, the lightning energy is discharged to ground, and the high surge voltage is clamped to low level, so our devices is protected.



Specification

Coaxial signal: IEC6100-4-5 and ITU-TK20&21
 Nominal discharge current(In): 5 KA(8/20μS)
 Working voltage: 0-2V
 Limit voltage: ≤30V
 Apply Band rate: 10Mbps
 Connector: BNC
 Insert consumption: ≤0.1dB
 Delay time: ≤10ns
 Working temperature: -20 to 60°C
 Storage temperature: -25 to 85°C
 Humidity: Relative humidity 5% to 95% No power supply needed,
 No consumption
 RACK protect: 9,12,16,24 choice
 L×W×H: 72mm×42mm×25mm
 Shell: Alnico
 Color: Blue
 Weight: 10g
 Standard Compliance: FCC, CE, RoHS

Application

Usually is use in protecting the following device as below
 Ethernet Exchange
 Ethernet HUB or Switch
 Router
 Computer
 Industrial control Device
 Net Server for Video system

Order part Number

BC-5052 Video Surge Protector

▶ RS-485 Surge Protector

Features

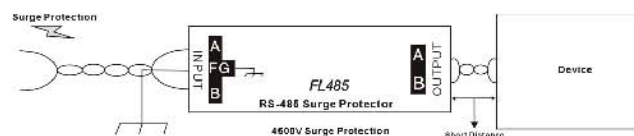
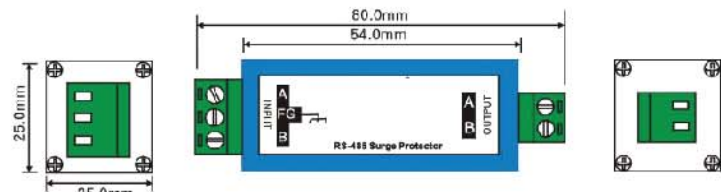
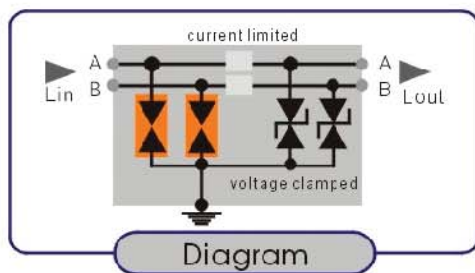
1. Three stages of protection on every data line
2. Protected signal ground connection
3. Easy to install, plug-and-play
4. 4500V surge protection

Introduction

IEC61000-4-5 and ITU-TK20&K21 are the recognized standards for top quality surge protectors. It has high response speed, low output residual voltage, ascendance transfer performance. All have #10 ground screws which must be connected to a solid ground.

Circuit Diagrams

Designed by the theory of current limited and voltage clamped, discharged to ground. When the data line exists a surge, it is induced and worked, the lightning energy is discharged to ground, and the high surge voltage is clamped to a low level, so our



Specification

Standard: Accord EIA RS-485 standard
 RS485 signal: IEC6100-4-5 and ITU-TK20&21
 Working voltage: 0-5V
 Limit voltage: <15V
 Maximum Surge Protection Voltage: 4,500V or 4.5KV
 Apply Band rate: 1Mbps
 Isolate signal: TXD, RXD, GND
 Connector: Standard industrial terminal block
 Insert consumption: <0.5dB
 Delay time: ≤1ns (Surge Protection attack time)

Environment

Working temperature: -40 to 85C
 Storage temperature: -25 to 85
 Humidity: Relative humidity 5% to 95%
 Standard Compliance: FCC, CE, RoHS

Power

Input powered: No power supply needed
 Consumption: No consumption

Dimension

LxWxH: 80mmx25mmx22mm
 Shell: Alnico
 Color: Blue
 Weight: 10g
 Approvals: FCC, CE, RoHS approvals

Dimension

LxWxH: 80mmx25mmx22mm
 Shell: Alnico
 Color: Blue
 Weight: 10g
 Warranty: 5 years
 Approvals: FCC, CE, RoHS approvals

Order part Number

BC-5053 RS-485 Surge Protector

Model : BC-PV101

Power-over-Ethernet Surge Protection (4KV)

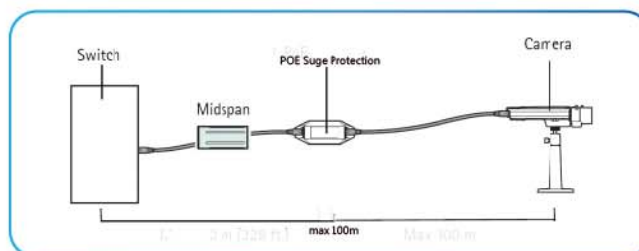
Description

Ethernet and PoE connections both restrict cable distances to 100 meters between network ports. To overcome this distance limit, network installers can simply connect an PoE Extender in-line with the Cat-5e or Cat-6 cable.

With PoE Surge Protection, PDs (such as IP Security Cameras, VoIP telephones, wireless access points) can be protected the both PD equipments well against from Big Surge (4KV).

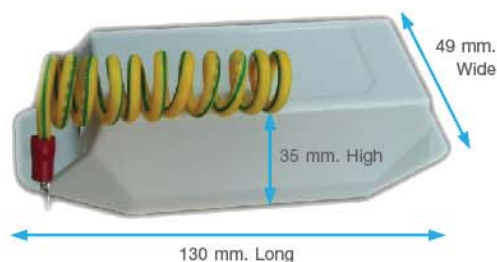
Features

- Compatible with IEEE802.3af
- RJ45 Jack to RJ45 Jack
- Power and signal line protection
- 10/100/1000Base-Tx Cat5/Cat5e compatible
- Application for PoE(Power over Ethernet) protection
- EMI standards complies with FCC, CE class B



Specifications

Item	Descriptions
No. of channels	1
Pass Through Data Rates	10/100/1000 Mbps half/full duplex
Power over Ethernet input	RJ45
Power over Ethernet Output	RJ45
Indicators	LED indicators are located on the RJ45 connector Network indicator:
Connectors	RJ45 Jack & RJ45 Jack
Network cables	Shielded category 5 (or higher)
Dimensions	130mm x 49mm x 35mm
Mounting	Wall of shelf
Environment	Indoor
Environmental Conditions	Operating Ambient Temperature:-10 to 45°C Operating Humidity: Maximum 90%, Non-condensing Storage Temperature:-20 to 70°C Storage Humidity: Maximum 95%, Non-condensing
Regulatory Compliance	IEEE 802.3af (PoE),
Standard Compliance	FCC, CE, RoHS
Electromagnetic	FCC Part15, Class B



Order part Number

BC-PV101 Power-over-Ethernet Surge Protection (4KV),
10/100/1000Mbps Ethernet

10/100Mbps POE Surge Protections(SPD) Mode-B / Midspan

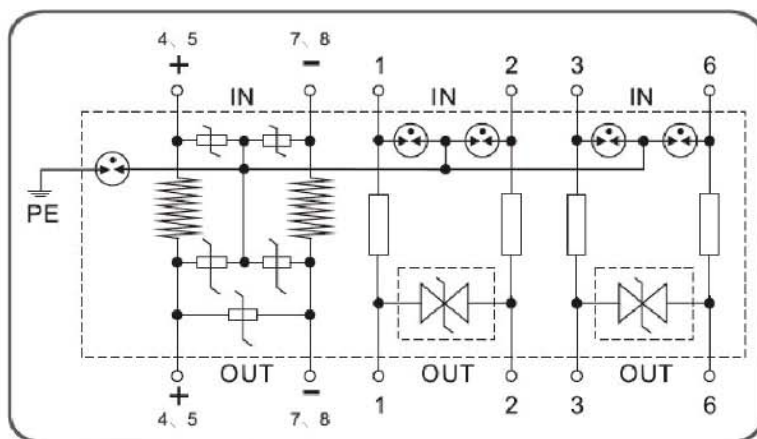
Product Description

Introduction

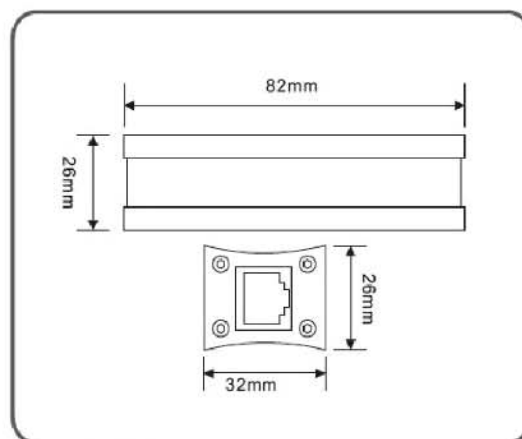
POE Network lightning arrester is a surge protection device designed especially for appliance ports and circuits which transmit data through POE. The product has applied the ESD and the malfunction self-recovery, which can provide thorough protection for signal and power supply. By the mean time, with the adoption of special touch-ground isolation design, it can avoid the influence of ground crosstalk, thus making the operation more stable and safer.



Installation



Basic circuit diagram



Dimension diagram

Specifications

Type	BC-S100POE Network	
Nominal operating voltage Un	Power 48V DC	Network 5V DC
Maximum continuous operating voltage Uc	65V DC	
Nominal discharge current(8/20μs) In	1kA	
Maximum discharge current Imax	2kA	
Protection level Up	160V	
Rates	10M/100MBit	
Response time tA	1ns	
Protection port	RJ45	
Operating temperature	- 40°C ~ +80°C	
Outer casing protection grade	IP20	
Testing standard	GB 18802. 1- 2011	
Installation mode	DIN	
Protective	4,5 7,8	1,2 3,6

Order part Number

BC-S100POE	10/100Mbps POE Surge Protections (SPD) Mode-B / Midspan
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Standard Compliance: FCC, CE, RoHS

