ACT 423 Coax / Video Surge Arrestors
Coax Transient Surge Arrestor

The ACT 423 is a series coax transient surge arrestor specifically designed for closed circuit television monitoring, security systems and satellite communications systems. This series connector surge arrestor is designed to monitor the video signal and coaxial signal transmission level and to quickly react to any over voltages that may be caused by transient surges. This Gas Tube / Diode Hybrid protector has been specifically designed to protect sensitive electronic equipment like video cameras and video drivers from lightning and other surges induced on the coax line. With the secondary stage having diodes, this small protector is able to respond to transient surge in less than one nanosecond.

This Coax Protection family comes in three families, single coax protector, Coax and DC protector and Coax, DC and Cradle Head Control protection.

FEATHERS AND BENEFITS
• Robust Design – 10kA (8x20uSec)
• Extremely low let through voltages
• Fast Response Time < 1 nSec
• Up to 10 Mbps Transfer Speeds
• Hybrid Design uses Gas Tube / Diodes
• 1 Year Standard Warranty

3RD PARTY TESTED
• UL 497A
• IEEE C62

TECHNICAL INFORMATION

ACT 423-005-10X Single Coax protector with two female BNC (01) or N (02) type connectors
ACT 423-005-201 Coax protector with DC power protector, includes two female BNC (01) type connectors and screw terminal block for DC power
423-005-301 Coax protector with both DC power and Cradle Head power/control and includes two female BNC (01) type connectors and screw terminal block for DC power

MECHANICAL SPECIFICATIONS

Dimensions:
- BNC or N Coax Protector
  3.5"x 1" (90 mm x 25mm)

- BNC Coax & DC Protector
  5"x2.5"x1 3/4" (125mm x 65mm x 47mm)

- BNC Coax, DC and Cradle
  5"x4.5"x2" (125mm x 115mm x 50mm)

Weight: 18 oz (510 g) to 36 oz (1.2 kg)
### ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Max Current (8x20us)</td>
<td>10kA</td>
</tr>
<tr>
<td>Transfer Speed</td>
<td>10 Mbps</td>
</tr>
<tr>
<td>dB Loss</td>
<td>&lt;0.5</td>
</tr>
<tr>
<td>Connector Type</td>
<td>Screw Terminals</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Video Coax Protector</th>
<th>DC Power</th>
<th>Cradle Head Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Voltage</td>
<td>5V</td>
<td>24</td>
<td>24</td>
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<tr>
<td>Continuous Voltage</td>
<td>8V</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Standard Discharge (qty 10)</td>
<td>5 kA</td>
<td>10 kA</td>
<td>10 kA</td>
</tr>
<tr>
<td>Maximum Discharge (qty 1)</td>
<td>10 kA</td>
<td>20 kA</td>
<td>20 kA</td>
</tr>
<tr>
<td>Transfer Speed</td>
<td>10 Mbps</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Loading Current</td>
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<tr>
<td>Plug In Loss (dB)</td>
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<td>N/A</td>
<td>N/A</td>
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**ACT 423 Coax / Video Surge Arrestors**

**ACT 423-005-101 (BNC)**

**ACT 423-005-201 (BNC)**

**ACT 423-005-301 (BNC)**
ACT 423 Installation Instructions

The BNC (01) and N (02) connector models can be used with any coaxial cable system. The following diagram is an example. Disconnect existing male BNC connector cable connected on the camera female BNC. Connect the ACT 423 Cable Protector to camera and then connect the coax cable male connector to the ACT 423 Female BNC. Verify proper operation by checking the picture quality of camera output.

**ACT 423-005-101 BNC Video Protector**

1. Connect the Male BNC connector of the existing coax to the Female BNC connector on the BNC-C/V

   Coax cable to switcher – Repeat process above for installation of BNC-C/V from head device equipment. i.e. switcher, monitor, recorder, etc.

2. Connect the BNC-C/V Male end to the Female connector on the camera

   Camera AC/DC Power Connection – See install instructions for appropriate required TVSS surge protection device.

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**ACT 423-005-201 BNC Video and DC Power Protector**

1. Connect the Male BNC connector of the existing coax to the Female BNC connector on the BNC-C/V

2. Connect the BNC-C/V Male end to the Female connector on the camera