

MMS-PTZ-BNC
Designed for analog cameras
BNC connector for video
Terminal block for power (2 wires)
and 4 wires for controls



MMS-PTZ-BAL
Designed for analog cameras
Uses UTP to BNC connector for video
Built-in balun Terminal block for power
(2 wires) and 4 wires for controls



MMS-CAT5-LAN-RJ45
Designed for CAT5 data lines
Uses RJ-45 connectors
For LAN network protection
IP cameras



MMS-PTZ-UTP
Designed for analog cameras
Uses UTP to UTP for video
Terminal block for power (2 wires)
and 4 wires for controls



MMS-CAT6-POE
Designed for CAT6 LAN/POE lines
Uses punch-down block
For LAN and POE protection
IP cameras
Will work with CAT5 POE



MMS-CAT5-POE-RJ45
Designed for CAT5 LAN/POE lines
Uses RJ-45 connectors
For LAN and POE protection
IP cameras
Not stocked, special order



MMS-CAT6-LAN
Designed for CAT6 data lines
Uses punch-down block
For LAN network protection
IP cameras
Not stocked, special order

PROTECTION FOR DATA LINES

Electrical transients can cause equipment to malfunction and can even have a catastrophic effect, inflicting severe damage to expensive devices, some of which may be mission critical. These electrical disturbances can enter into a network system through data lines that create a "back door" entrance to equipment. Normally, these electrical lines transmit data via very low voltage signals between devices, and by their very nature, data cables can have a direct route into equipment when higher voltage transients find their way onto data lines. Such damaging transients include electrostatic discharge, electromagnetic interference, and the most devastating of them all, lightning.

When damage to expensive equipment does occur from these types of anomalies, it is not covered under a manufacturer's warranty. When you compare the cost of downtime and equipment replacement costs, these surge suppressors are an excellent investment.

Minuteman's LineGuard products are UL listed and designed for fast, simple installation. All models are covered under Minuteman's limited lifetime warranty, along with a \$10,000 attached equipment protection plan.

FEATURES

- Solid-state, nanosecond response to over-voltage surges
- Lightning rated
- UL 497B listed
- Limited lifetime warranty
- \$10,000 attached equipment protection
- Interlocking wall-mount with single ground
- Fast, easy installation

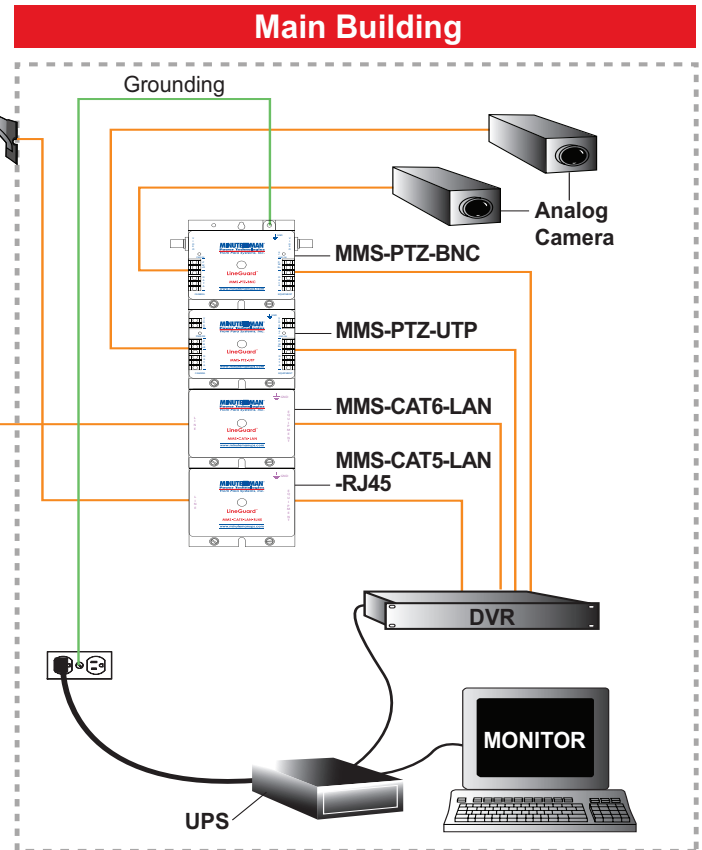
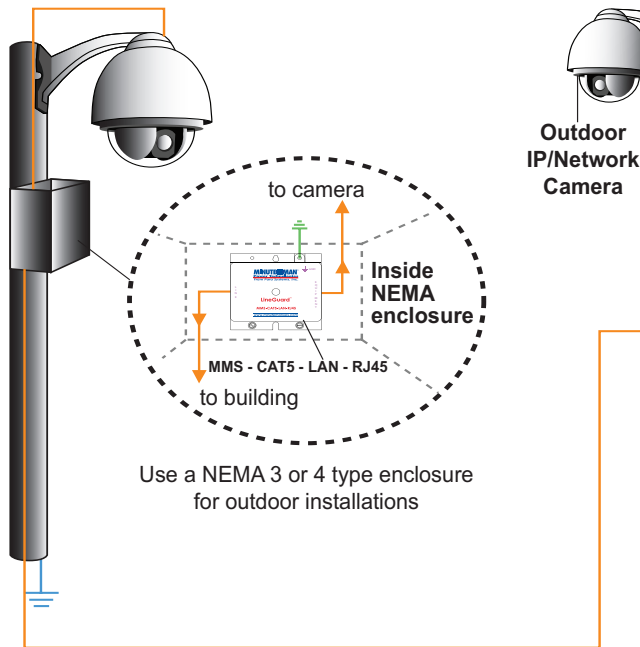
minutemanups.com/lineguard

Minuteman® LineGuard Surge Suppressor Specifications

Model	MMS-PTZ-BNC	MMS-PTZ-BAL	MMS-PTZ-UTP
Dimensions	4.25W x 4.25H x 1.5D inches		
Weight	0.43 lbs.		
UL listing	UL 497B		
Fused/Auto-resettable	Yes		
Clamping level	7.5V Data, 2.8V Video, 12VDC/24VAC Power		
Capacitance	<50pF		
Termination Type	Data = Screw terminal block, Power (POE) = Screw terminal block, Video = BNC	Screw terminal block	

Model	MMS-CAT5-LAN-RJ45	MMS-CAT6-LAN	MMS-CAT5-POE-RJ45	MMS-CAT6-POE
Dimensions	4.25W x 4.25H x 1.5D inches			
Weight	0.43 lbs.			
UL listing	UL 497 & UL 497B			
Fused/Auto-resettable	Yes			
Clamping level	16V		16V Data (Green & Orange Pairs) 68V Power (Blue & Brown Pairs)	
Response Time	1-5 Nanoseconds			
Capacitance	<20pF			
Termination Type	RJ-45	110 Punchdown	RJ-45	110 Punchdown

Installation Diagram of Minuteman® LineGuard



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