

# Surge Protection Made Simple™ for Coaxial Data Cables

## UL Listed 497B In-line Surge Protective Device for BNC Connector Cable Systems



### Description

The Cooper Bussmann BSPD5BNCSI two-stage in-line surge arrester is for protecting coaxial cable-connected systems (such as video and camera systems) from potential damage.

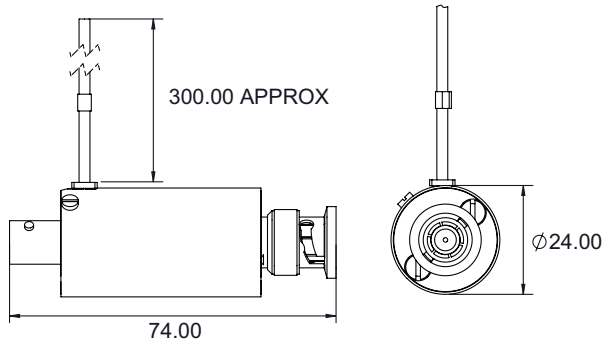
The BSPD5BNCSI shielded surge arrester is plugged into coaxial terminal equipment or connections. Common applications include protecting outdoor video surveillance systems or video control centers. The cable shield is indirectly grounded via a gas discharge tube to avoid being influenced by leakage pickups. The arrester input is used as a socket and the protected output as a plug.

- UL 497B Listed
- Plug-in surge protective device for easy retrofitting
- Directly plugs into terminal equipment with BNC coaxial connections
- Integrated indirect shield grounding avoids leakage pickups

**BSPD5BNCSI**

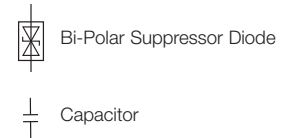
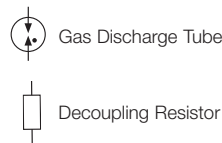
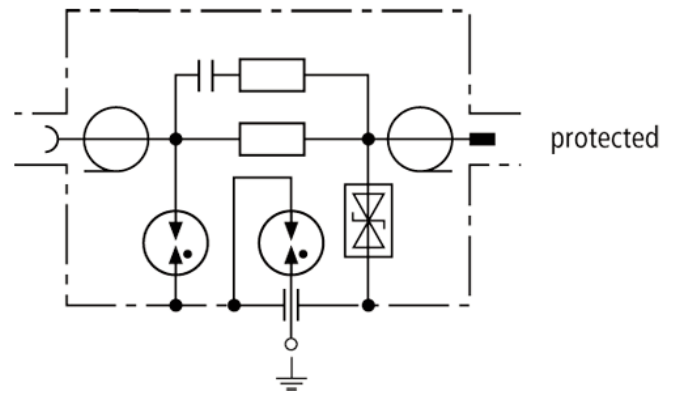


### Dimensions-mm



### In-line SPD for BNC Coax

#### Circuit Diagram



TECHNICAL DATA	
Catalog Number	BSPD5BNCSI
Nominal voltage (U <sub>N</sub> )	5V
Max. continuous operating DC voltage (U <sub>C</sub> )	8V
C2 Nominal discharge current (8/20μs) per line (I <sub>n</sub> )	2.5kA
C2 Nominal discharge current (8/20μs) shield-PG (I <sub>n</sub> )	10kA
Voltage protection level line-shield for I <sub>n</sub> C2 (U <sub>p</sub> )	≤25V
Voltage protection level line-shield at 1kV/μs C3 (U <sub>p</sub> )	≤15V
Voltage protection level shield-PG at 1kV/μs C3 (U <sub>p</sub> )	≤600V
Insertion loss at 265MHz	≤3dB
Return loss at 40MHz	≥20dB
Impedance (Z)	75Ω
Series impedance per line	10Ω
Capacitance line-shield (C)	≤50pF
Operating temperature range	-40°C to +80°C
Connection (input / output)	BNC Socket (female) / BNC Plug (male)
Grounding	Via outgoing earth conductor 18AWG (0.75mm <sup>2</sup> )
Shield grounding	Indirectly via an integrated spark gap element
Test standards	IEC 61643-21 / EN 61643-21
Agency information	UL 497B
Warranty	5 Years*

\* See Cooper Bussmann SPD Limited Warranty Statement (3A1502) for details at [www.cooperbussmann.com/Surge](http://www.cooperbussmann.com/Surge).

### In-line BNC SPD Applications

Part Number	BSPD5BNCSI
Bus Systems and Measuring & Control Technology	
Control Net	X
Melsec Net 2	X
Data Networks	
Arcnet	X
Video Systems	
Video (coax)	X



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