

# Data Line Protection

## MODEL

**DLP-10H • 20H • 30H**

### Protects 4-20mA loops, I/O Ports, Sensors

The DLP H series provides superior surge protection for data and signal line applications. Using higher capacity components, these units offer an improved level of reliability than other similarly priced products. To cover a broader range of applications, four different styles of protection circuits and ten standard voltages are offered to fine tune the protection to your equipment. •2, 4, or 8 protected wires •Hybrid or high power silicon avalanche diode technology •Standard Duty or Heavy Duty Capability •DIN rail mountable option •Low profile enclosure •UL497B Listed •20-year Warranty

## SPECS

### All Models

Response Time:	<1ns
Attenuation:	<1dB @ 10 MHz
Terminal Blocks:	Barrier Type
Connection:	6-32 Screw Terminals
Wire Size Range:	12-24 AWG
Maximum Screw Torque:	10 lb. in.
Enclosure:	High Impact Plastic
Certification:	UL497B Listed

### Hybrid Models (per circuit ratings):

Ipk, Standard Duty:	10kA (8x20 microsecond)
Ipk, Heavy Duty Models:	20kA (8x20 microsecond)
Series Resistance:	5 Ohms
Current, Continuous:	350mA Maximum

### Silicon Avalanche Diode Models (per circuit ratings):

Peak Power, Standard Duty:	10kW (10x1000 microsecond)
Peak Power, Heavy Duty:	60kW (10x1000 microsecond)
Series Resistance:	0 Ohms
Current, Continuous:	10A Maximum (Series Connected)
Current, Continuous:	Unlimited (Parallel Connected)

### Dimensions, LxWxD (models w/o “-DIN” option):

DLP-10H/HH models:	5.0" x 2.1" x 1.1" (127 x 54 x 28mm)
DLP-20H/HH models:	5.0" x 2.8" x 1.1" (127 x 72 x 28mm)
DLP-30H/HH models:	5.0" x 4.4" x 1.1" (127 x 112 x 28mm)

### Dimensions, LxWxD (models w/ “-DIN” option):

DLP-10H/HH models:	5.0" x 2.1" x 1.9" (127 x 54 x 49mm)
DLP-20H/HH models:	5.0" x 2.8" x 1.9" (127 x 72 x 49mm)
DLP-30H/HH models:	5.0" x 4.4" x 1.9" (127 x 112 x 49mm)
Overall Mounting Depth (w/ DIN 35 Top Hat Style Rail):	1.96" (50mm)

### Mounting Dimensions (models w/o “-DIN” option):

DLP-10H/HH models:	4.2"x1.50"/0.185" ID (107 x 38mm/4.7mm ID)
DLP-20H/HH models:	4.2"x2.25"/0.185" ID (107 x 57mm/4.7mm ID)
DLP-30H/HH models:	4.2"x3.75"/0.185" ID (107 x 95mm/4.7mm ID)



## How to Order

**DLP - xxHx - xxxVx - xxx**

1	2	3	4
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**1st Field:** DLP = DLP model family.

**2nd Field:** xxHx represents the style (# of wires protected and the protection capacity).

10H=2 Wire, standard duty;	10HH=2 Wire, heavy duty
20H=4 Wire, standard duty;	20HH=4 Wire, heavy duty
30H=8 Wire, standard duty;	30HH=8 Wire, heavy duty

**3rd Field:** xxxVx represents the voltage of the protector and series resistance.

Hybrid models: 6V5, 8V5, 12V5, 15V5, 25V5, 36V5, 55V5, 100V5, 150V5, 180V5\*

Silicon avalanche diode models: 6V0, 8V0, 12V0, 15V0, 25V0, 36V0, 55V0, 100V0, 150V0, 180V0\*\*

**4th Field:** xxx represents whether or not the DIN rail option is present.

“DIN” means protector will include the DIN rail mount feature.

A blank field means protector will not include the DIN rail mount option.

**Ordering Example:** DLP-20HH-25V5. This is a 4 wire, heavy-duty, 25 volt, hybrid protector.

\*Hybrid models use gas tubes, resistors, and silicon avalanche diodes in the protection circuit.

\*\* Silicon avalanche diode models do not employ series resistors or gas tubes.



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