POWER/DATA SURGE PROTECTOR
DTK-120SR, DTK-2MHLP

DESCRIPTION

The **Model DTK-120SR** is a in-line, four-stage, power-line surge protector with EMI/RFI filtering. It is designed for mounting in an enclosure or control panel. Series installation eliminates the need to dedicate a circuit breaker for surge protection, while allowing for installation flexibility. The **120SR** meets stringent government and military specs for fire panel applications and is suitable for use on an critical 20 Amp loads.

The **Model DTK-2MHLP** series of signal, data and loop circuit surge protectors provide robust protection in a compact package. Designed for ease of installation, with convenient field-replaceable modules. The 2MHLP protects two circuits pairs per module. Applications include protection of 4-20mA current loops, alarm pane NAC, SLC and IDC loops, and burglar alarm panels.

DTK-120SR   **DTK-2MHLP**

FEATURES

DTK-120SR
- *Series design for fast response and best protection*
- *Suitable for use on circuit breakers rated at 10kA AIC*
- *EMI/RFI filtering*
- *Compact design fits in a variety of control panels*
- *Multi-stage hybrid circuit design*
- *UL 1449 3rd edition recognized componet*
- *LED indicates protection status*

DTK-2MHLPWB
- *Multi-stage, SAD technology, hybrid design*
- *Hard-wire mounting base*
- *Field replaceable, hot swappable, modular edge card connection design*
- *Multiple voltage levels for variety of voice/data applications*
- *Two pairs protected per module, can be extended to ten pairs using a common ground using DTK-MB base*
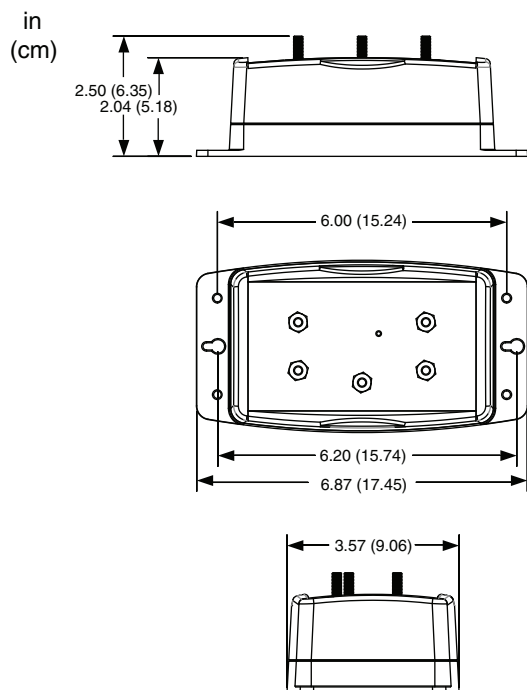
SPECIFICATIONS

DTK-120SR

Service voltage	120V
MCOV	150V
Suppressed voltage Rating	600V
Continuous current	20A
EMI/RFI attenuation	Up to 35dB, 100kHz-100MHz
Surge current	54,000 amps
Protection	L-N, L-G, N-G
Approvals	UL1449, 3rd Edition
Weight	0.76 lb (0.45 kg)
Dimensions	6.87"W x 3.50"H x 2.50"D (17.45 x 9.06 x 6.35 cm)
Temperature rating	32° to 104°F (0° to 40°C)
Warranty	10-year limited

DTK-2MHLPWB

Service voltage

5B	0-5 VDC	**36B**	36 VDC
12B	12 VDC	**48B**	48 VDC
24B	24 VDC	**75B**	75 VDC

MCOV/Let-through voltage

5B	5/6.8 VDC	**36B**	48/57 VDC
12B	18/21.6 VDC	**48B**	64/76 VDC
24B	33/39 VDC	**75B**	90/108 VDC

Continuous current	5A
Surge current	20kA
Data rate	200kbps (5V) to 2Mbps (130V)
Protection	L-G (all lines protected)
Approvals	UL 497B
Connections	Edge card into DTK-MB mounting base
Weight	0.078 lb (0.036 kg) - with base
Dimensions	4.5"W x 1.75"H x 3.0"D (11.5 x 4.5 x 7.6 cm)
Temperature rating	-40° to 158°F (-40° to 70°C)
Warranty	10-year limited

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POWER MONITORING & PROTECTION

DIMENSIONS

in (cm)

DTK-120SR

2.50 (6.35)
2.04 (5.18)

6.00 (15.24)

6.20 (15.74)

6.87 (17.45)

3.57 (9.06)

DTK-2MHLP

2.09 (5.3)

1.42 (3.6)

1.54 (3.9)

1.89 (4.8)

1.69 (4.3)

2.02 (5.1)

DTK-MB

1.65 (4.2)

0.96 (2.4)

0.27 (0.7)

4.13 (10.5)

2.21 (5.6)

Ø 0.16 (2 PLCS TYP)

0.96 (2.4)

0.27 (0.7)

1.07 (2.7)

1.17 (3.0)

WIRING

DTK-120SR

IN
SUPPLY

BLK — Line 1
WHT — Neut
GRN — GND

Line 1 — BLK
Neut — WHT
GND — GRN

OUT
EQUIPMENT

DTK-120SR

UNPROTECTED: GND 1+ 1– 2+ 2– GND

PROTECTED: GND 1+ 1– 2+ 2– GND
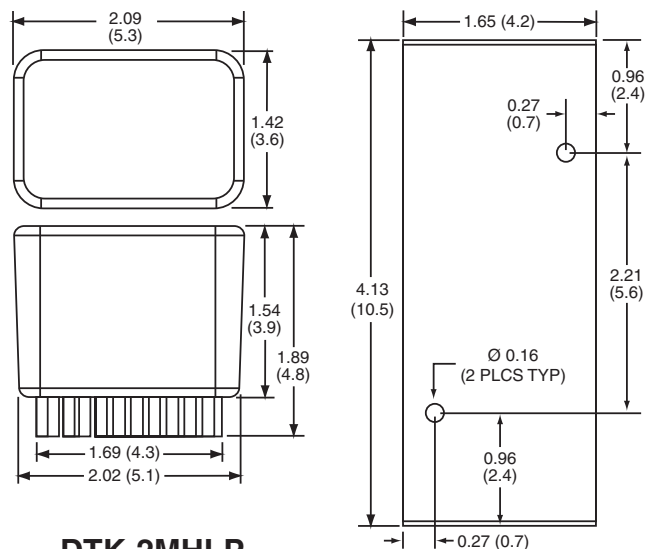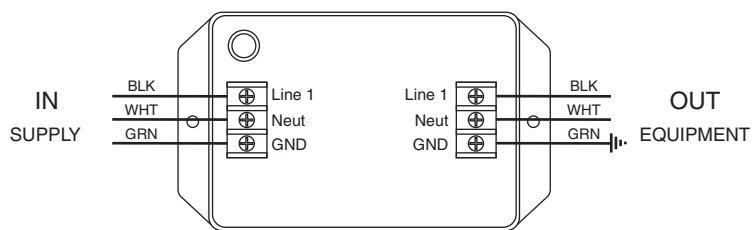
Expected System Voltages			
120 VAC	L-N	L-G	N-G
Voltages	120	120	0

Note: If the DTK-120S15A is not installed inside the control panel/cabinet, provide an appropriate enclosure per NEC, NFPA, and all applicable codes.
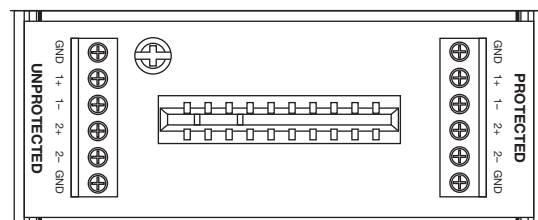
ORDERING INFORMATION

MODEL	DESCRIPTION
DTK2MHLP5BWB	Surge protector, 5 VDC data line with base
DTK2MHLP12BWB	Surge protector, 12 VDC data line with base
DTK2MHLP24BWB	Surge protector, 24 VDC data line with base
DTK120SR	Surge protector, 120 VAC in-line, 20A continuous