Lightning Surge Protectors for **Electronics Equipment M-RESTER**

LIGHTNING SURGE PROTECTOR FOR **STANDARD SIGNAL LINE & PULSE USE**

(photovoltaic system, instrument shelter)

Functions & Features

 Designed specifically for 4 – 20mA DC and pulse signal line including both 4-wire and 2-wire transmitters

• Absorbs surges only without affecting instrumentation signal

 No interruption of signal by unplugging surge protector element

Application Examples

· Protects two-wire transmission lines

Protects electronic instruments' I/O



MODEL: MDP-24T[1]

ORDERING INFORMATION

 Code number: MDP-24T[1] Specify a code from below for [1]. (e.g. MDP-24T/A33)

[1] OPTIONS

DIN Rail Mounting Adapter blank: Without (A33: With adapter (model A-33)

GENERAL SPECIFICATIONS

Construction: Plug-in **Connection**: M4 screw terminals (torque 0.8 N·m) Screw terminal: Nickel-plated steel Housing material: Flame-resistant resin (black)

INSTALLATION

Operating temperature: -20 to +80°C (-4 to +176°F) Operating humidity: 30 to 90 %RH (non-condensing) Mounting: Surface or DIN rail

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Weight:

120 g (0.26 lb), standard 145 g (0.32 lb), with DIN rail mounting adapter

PERFORMANCE

Max. continuous operating voltage (Uc): Line to line: 30 V min Line to earth: ±300 V min Voltage protection level (Up): • @ 1 kV (100 A) Line to line: 40 V max. Line to earth: ±650 V max. • @ 2 kV (1 kA) Line to line: 45 V max. Line to earth: ±800 V max. Response time: Line to line: \leq 4 nsec. Line to earth: \leq 20 nsec. Leakage current: Line to line: \leq 30 μ A @ 30 V DC Line to earth: \leq 5 µA @ ±140 V DC Max. discharge current (Imax): 5000 A (8 / 20 µs) Nominal current (In): 100 mA Internal series resistance: $20 \Omega \pm 10 \%$ (including return) Capacitance @ 1 MHz: Line to line: $\leq 1000 \text{ pF}$ Line to earth: \leq 100 pF

STANDARDS & APPROVALS

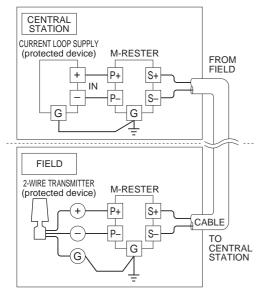
CE conformity: EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007 EMS EN 61000-6-2: 2005 Surge protection: IEC 61643-21: 2000 (Categories C1, C2)

TEL : (02)2598-1199 E-mail : info@xintop.com FAX : (02)2596-2331

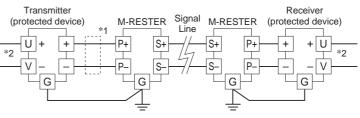
Website : www.xintop.com

CONNECTION EXAMPLES

■ PROTECTING TWO-WIRE SIGNAL LINES

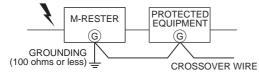


■ PROTECTING ELECTRONIC INSTRUMENTS' I/O



*1. Install a circuit protector when the transmitter output current exceeds 100mA. *2. The M-RESTER is designed in particular to protect signal lines. To protect power supply lines, install other types of surge protectors.

GROUNDING



A crossover wire between M-RESTER ground and the ground or metallic housing of the equipment is required for protection. If the protected equipment has no ground terminal, ground the M-RESTER only.

When the M-RESTER is mounted with DIN Rail Mounting Adapter, connect the grounding wire to the mounting screw of the M-RESTER.

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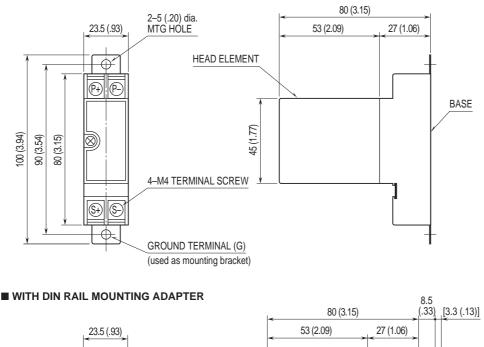
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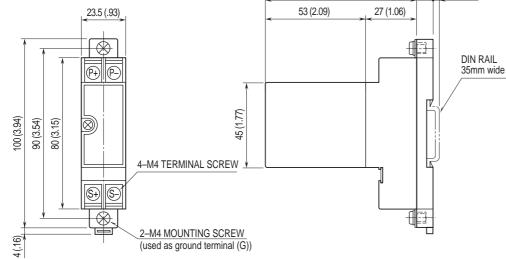


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EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



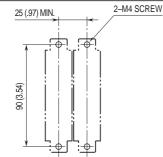




MOUNTING REQUIREMENTS unit: mm (inch)

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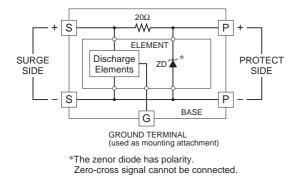




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SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.





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