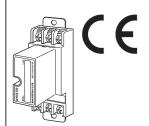
Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR RTD USE

Functions & Features

- Designed specifically for resistance temperature detector (RTD) circuits
- Protecting RTD and RTD transmitters from damage caused by surges on the RTD wiring
- Absorbs surges only without affecting instrumentation signal

• No interruption of signal by unplugging the protector element



MODEL: MDP-RB[1]

ORDERING INFORMATION

• Code number: MDP-RB[1] Specify a code from below for [1]. (e.g. MDP-RB/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: -5 to +55°C (23 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing) Mounting: Surface or DIN rail Weight: 140 g (0.31 lb), standard 165 g (0.36 lb), with DIN rail mounting adapter

PERFORMANCE

Max. continuous operating voltage (Uc): B to C: ±6 V min. B or C to A: ±3 V min. Line to earth: ±140 V min. Voltage protection level (Up): • @ 1 kV (100 A) 2 to 3: ±32 V max. 2 or 3 to 1: ±16 V max. Line to earth: ±650 V max. • @ 2 kV (1 kA) 2 to 3: ±40 V max. 2 or 3 to 1: ±25 V max. Line to earth: ±800 V max. **Response time**: $\leq 0.1 \, \mu \text{sec.}$ Leakage current: B to C: \leq 2 µA @ ±6 V DC B or C to A: \leq 2 μ A @ \pm 3 V DC Line to earth: $\leq 2 \mu A @ \pm 140 V DC$ Max. discharge current (Imax): 5000 A (8 / 20 µs) Nominal current (IN): 100 mA Internal series resistance: $10 \Omega \pm 0.1 \%$, 30 ppm/°C (17 ppm/°F) Capacitance @ 1 MHz: Line to line: $\leq 1000 \text{ pF}$ Line to earth: \leq 100 pF

STANDARDS & APPROVALS

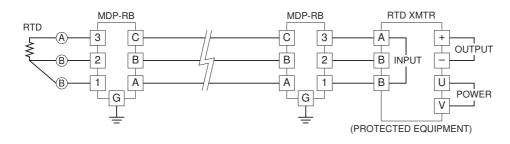
CE conformity: EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007 EMS EN 61000-6-2: 2005 Surge protection: IEC 61643-21: 2000 (Categories C1, C2)



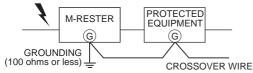
幸託有限公司 TEL:(02) XIN TOP CORPORATION FAX:(02)

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

CONNECTION EXAMPLES



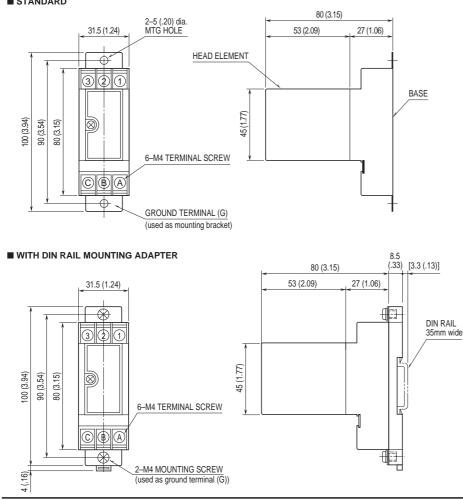
GROUNDING



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.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



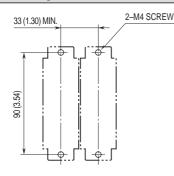
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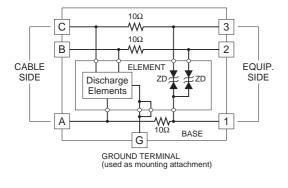


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MOUNTING REQUIREMENTS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM





Specifications are subject to change without notice.





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