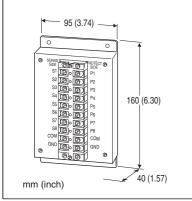
Lightning Surge Protectors for Electronics Equipment M-RESTER

MULTI M-RESTER

Functions & Features

• Designed specifically for ON-OFF signals, protecting semiconductor switches used for ON-OFF outputs from the computer or PLC from lightning surge damage that enters on the wiring between these instruments

- 8 channels
- Most convenient as junction board
- Minimum mounting space



MODEL: MDR-8

ORDERING INFORMATION

Code number: MDR-8

GENERAL SPECIFICATIONS

Construction: terminal board; terminal cover provided Connection: M3 screw terminals (torque 0.5 N·m) Screw terminal: Nickel-plated brass Housing material: Steel plate t = 1.2 (black)

INSTALLATION

Operating temperature: -5 to +55°C (23 to 131°F) Operating humidity: 30 to 90 %RH (non-condensing) Mounting: Surface Weight: 510 g (1.12 lb)

PERFORMANCE

Discharge voltage (peak voltage) Between each of S1–S8 lines: ±30 V min. Each line – COM: 30 V min.

Each line or COM – G: ± 60 V min.

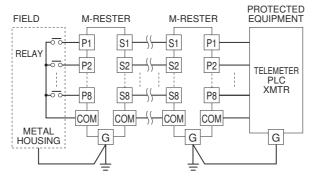
Maximum surge voltage

Between each of S1-S8 lines: ±40 V max.

Each line - COM: 40 V max. Each line or COM - G: \pm 650 V max. (The maximum voltage that could pass through M-RESTER. Protected equipment must be able to withstand this voltage for very short time period.) **Response time**: $\leq 0.1 \mu$ sec. **Leakage current** Between each of S1-S8 lines: $\leq 5 \mu$ A at $\pm 30 \text{ V DC}$ Each line - COM: $\leq 5 \mu$ A at 30 V DC Each line or COM - G: $\leq 5 \mu$ A at $\pm 60 \text{ V DC}$ **Max. discharge current (Imax)**: 1000 A (8/ 20 μ sec.) **Max. load current**: 100 mA

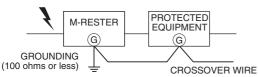
Internal series resistance: Approx. 100Ω

CONNECTION EXAMPLES



All negative lines are connected to COM.

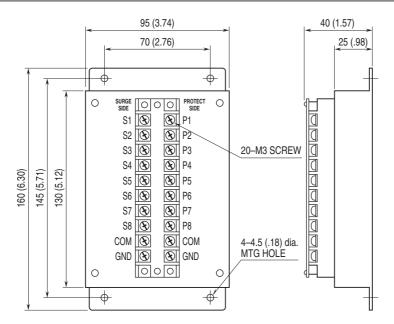
GROUNDING



A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection.

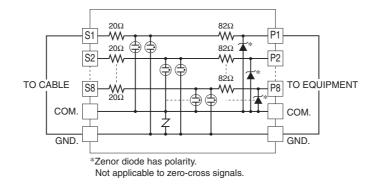
If the protected equipment has no ground terminal, ground the M-RESTER only.

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



•When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY



Specifications are subject to change without notice.