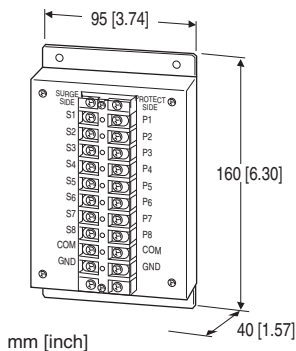## Lightning Surge Protectors for Electronics Equipment M-RESTER

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

mm [inch]

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
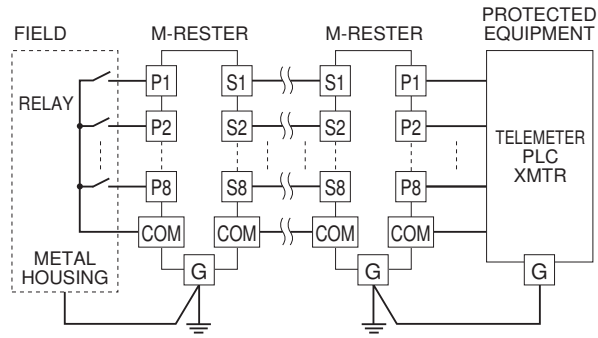**Discharge voltage (peak voltage)**
  Between each of S1–S8 lines: ±30 V min.
  Each line – COM: 30 V min.
  Each line or COM – G: ±60 V min.
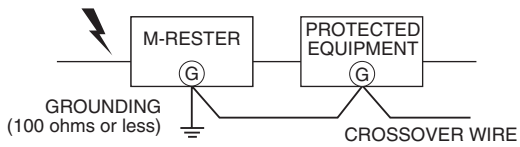**Maximum surge voltage**
  Between each of S1–S8 lines: ±40 V max.
  Each line – COM: 40 V max.
  Each line or COM – G: ±650 V max.
(The maximum voltage that could pass through M-RESTER. Protected equipment must be able to withstand this voltage for very short time period.)
Response time: ≤ 0.1 µsec.
Leakage current
  Between each of S1–S8 lines: ≤ 5 µA at ±30 V DC
  Each line – COM: ≤ 5 µA at 30 V DC
  Each line or COM – G: ≤ 5 µA at ±60 V DC
Max. discharge current (Imax): 1000 A (8/ 20 µsec.)
Max. load current: 100 mA
Internal series resistance: Approx. 100Ω

CONNECTION EXAMPLES

All negative lines are connected to COM.

GROUNDING
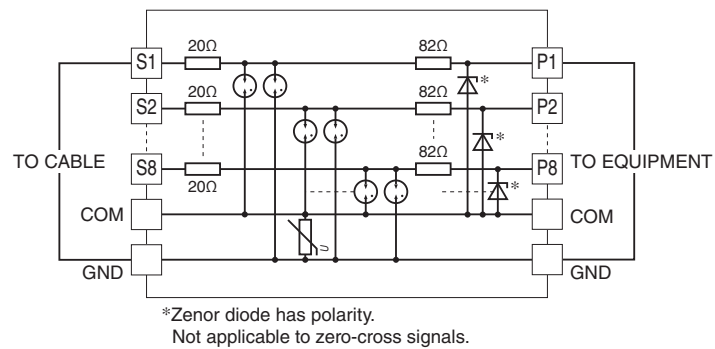

GROUNDING
(100 ohms or less)

CROSSOVER WIRE

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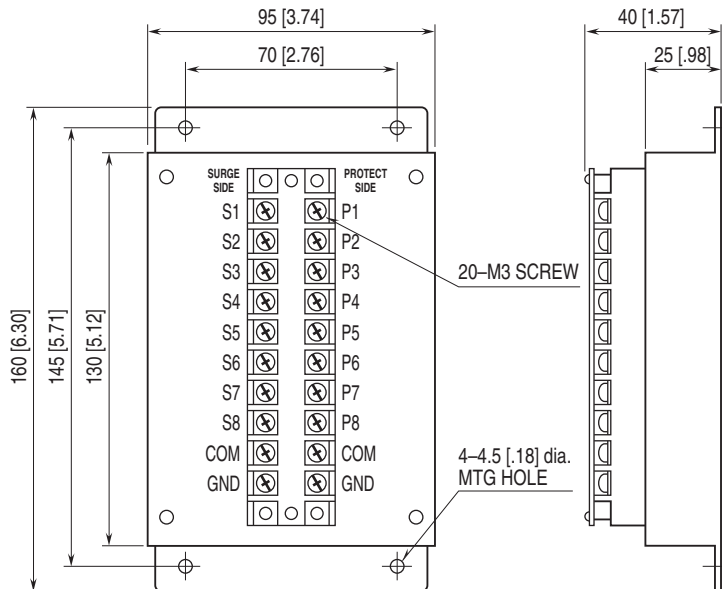
•When mounting, no extra space is needed between units.

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SCHEMATIC CIRCUITRY

*Zenor diode has polarity.
Not applicable to zero-cross signals.

⚠ Specifications are subject to change without notice.

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