

Lightning Surge Protectors for Electronics Equipment *M-RESTER*

LIGHTNING SURGE PROTECTOR FOR STRAIN GAUGE USE

MODEL **MDP-LC**

MODEL & SUFFIX CODE SELECTION

MODEL _____ **MDP-LC**

ORDERING INFORMATION

Specify code number. (e.g. MDP-LC)

GENERAL SPECIFICATIONS

Construction: plug-in

Connection: M4 screw terminals (nickel-plated steel; torque ≤ 0.8 N·m)

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 (DIN rail adaptor model A-33 is required.)

Dimensions: W23.5×H100×D80 mm (0.93"×3.94"×3.15")

Weight: 100 g (0.22 lbs)

PERFORMANCE

Discharge voltage

Output side: ± 0.3 V min.

Excitation side: 15V min.

Line to ground: ± 15 V min.

Maximum surge voltage*

Output side: ± 15 V max.

Excitation side: 30V max.

Line to ground: ± 30 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: ≤ 5 nanoseconds

Discharge current capacity

Output side: 100A (8 / 20 μ sec.)

Excitation side: 50A (8 / 20 μ sec.)

Line to ground: 50A (8 / 20 μ sec.)

Leakage current

Output side: ≤ 0.2 μ A at ± 0.3 V DC

Excitation side: ≤ 2 μ A at 15V DC

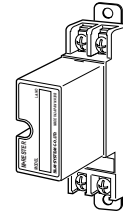
Line to ground: ≤ 2 μ A at ± 15 V DC

Maximum voltage

Output side: ± 0.3 V

Excitation side: 15V

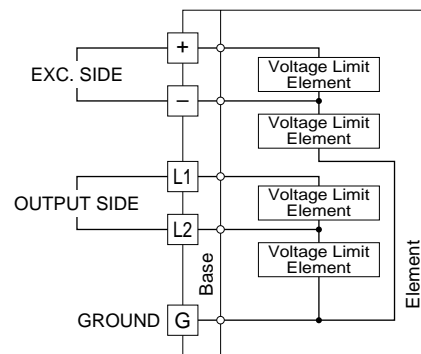
Line to ground: ± 15 V



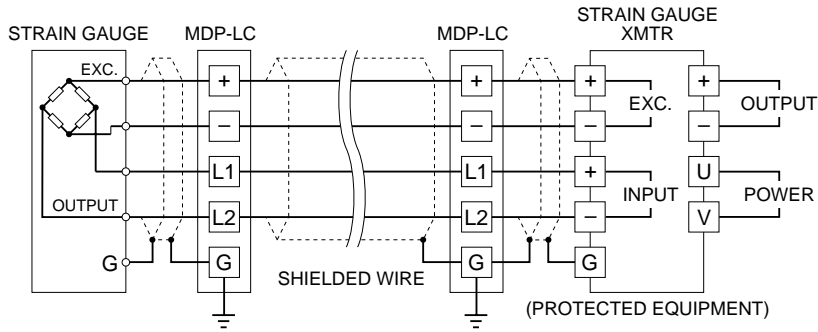
Functions & Features

- Designed to protect strain gauge transmitters from lightning surge damage that enters on the wiring between the strain gauge and the transmitter
- Absorbing surges only without affecting instrumentation signal
- No interruption of signal by unplugging arrester element

SCHEMATIC CIRCUITRY

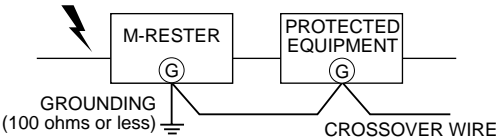


CONNECTION DIAGRAM

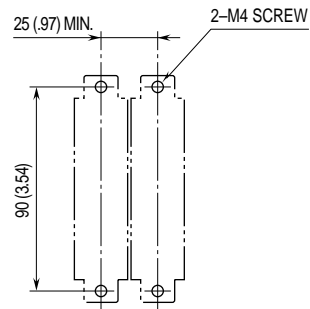


GROUNDING

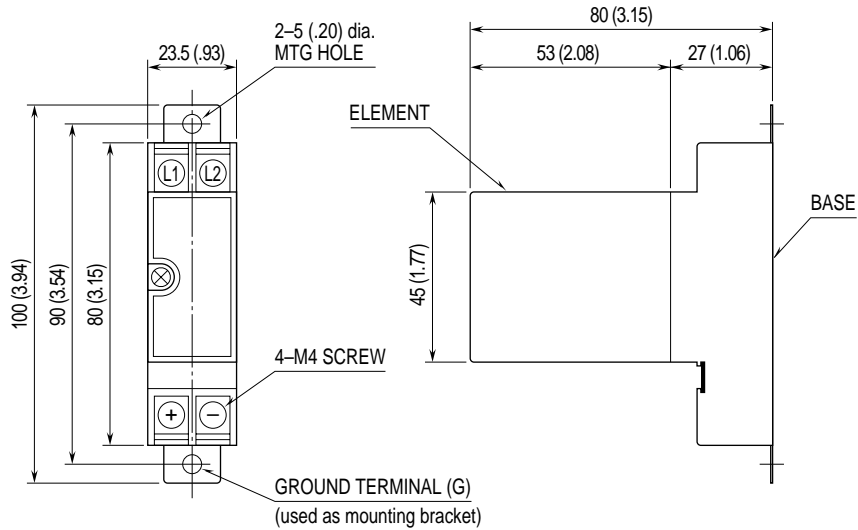
A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection.



MOUNTING REQUIREMENTS mm (inch)



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT mm (inch)



Specifications subject to change without notice.