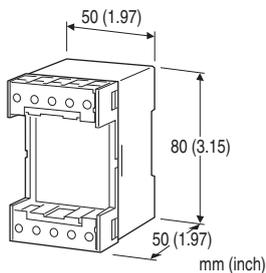


Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR STRAIN GAUGE USE

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
- Shallow depth
- DIN rail mounting



MODEL: MDK-LC

ORDERING INFORMATION

- Code number: MDK-LC

GENERAL SPECIFICATIONS

Construction: Discrete box, front terminals; terminal cover provided

Connection: M3.5 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: DIN rail

Weight: 150 g (0.33 lb)

PERFORMANCE

Maximum line voltage

Output side: ± 0.3 V

Excitation side: 15 V

Discharge voltage (peak voltage)

Output side: ± 0.3 V min.

Excitation side: 15 V min.

Line to ground: ± 15 V min.

Maximum surge voltage

Output side: ± 15 V max.

Excitation side: 30 V 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 nsec.

Leakage current:

Output side: ≤ 0.2 μ A @ ± 0.3 V DC

Excitation side: ≤ 2 μ A @ 15 V DC

Line to ground: ≤ 2 μ A @ ± 15 V DC

Discharge current capacity

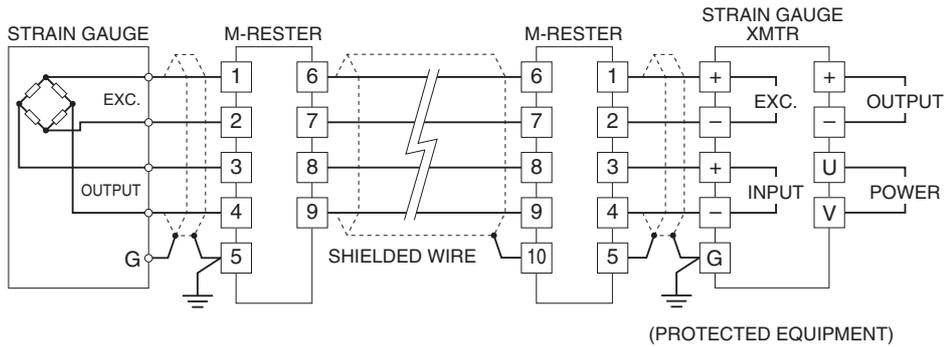
Output side: 100 A (8 / 20 μ sec.)

Excitation side: 50 A (8 / 20 μ sec.)

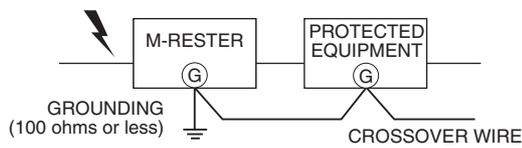
Line to ground: 50 A (8 / 20 μ sec.)

Internal series resistance: ≤ 0.1 Ω

CONNECTION EXAMPLES

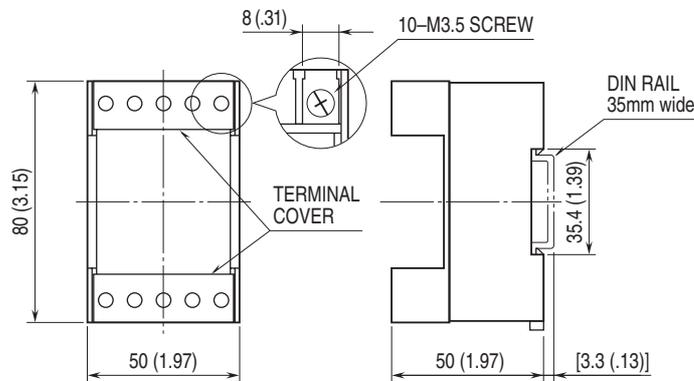


GROUNDING



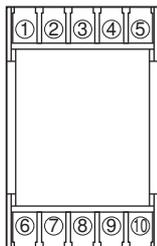
A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection.
If the protected equipment has no ground terminal, ground the M-RESTER only.

DIMENSIONS unit: mm (inch)

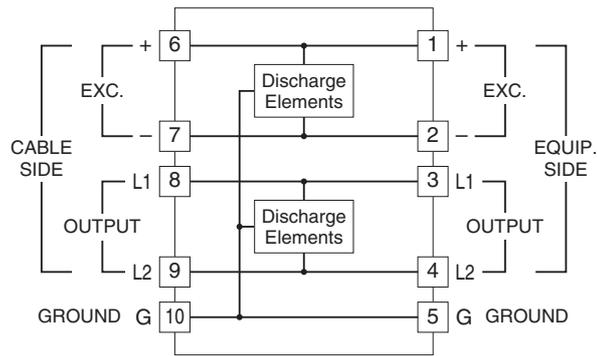


•When mounting, no extra space is needed between units.

TERMINAL ASSIGNMENTS



SCHEMATIC CIRCUITRY



Specifications are subject to change without notice.