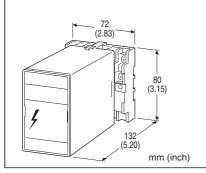
Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR STRAIN GAUGE USE

(6-wire remote sensing)

Functions & Features

- •Designed to protect strain gauge transmitters from lightning surge damage that enters on the wiring between the strain gauge and the transmitter
- •Six-wire remote sensing
- Absorbing surges only without affecting instrumentation signal



MODEL: MD-LC2

ORDERING INFORMATION

• Code number: MD-LC2

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M3.5 screw terminals

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**: 250 g (0.55 lbs)

PERFORMANCE

Maximum line voltage

Signal (L1 to L2): ±0.3 V Excitation (+ to -): 15 V Excitation (S+ to S-): 15 V Signal (L1, L2) to ground: ±15 V Excitation (+, S+) to ground: +30/-15 V Excitation (-, S-) to ground: ±15 V

Discharge voltage (peak voltage)

Signal (L1 to L2): ± 0.3 V min. Excitation (+ to -): 15 V min. Excitation (S+ to S-): 15 V min. Signal (L1, L2) to ground: ± 15 V min. Excitation (+, S+) to ground: $\pm 30/-15$ V min. Excitation (-, S-) to ground: ± 15 V min.

Maximum surge voltage

Signal (L1 to L2): ±20 V max.

Excitation (+ to -): 40 V max.

Excitation (S+ to S-): 40 V max.

Signal (L1, L2) to ground: ±40 V max.

Excitation (+, S+) to ground: +65/-40 V max.

Excitation (-, S-) to ground: ±40 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: 4 nsec.

Leakage current

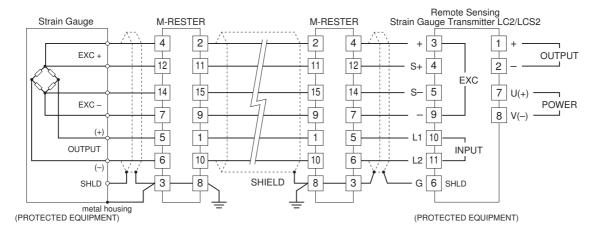
Signal (L1 to L2): \leq 0.2 μ A at \pm 0.3 V DC Excitation (+ to -): \leq 2 μ A at 15 V DC Excitation (S+ to S-): \leq 2 μ A at 15 V DC Line to ground: \leq 2 μ A at \pm 15 V DC

Discharge current capacity: $5000 \text{ A} (8 / 20 \mu \text{sec.})$ Internal series resistance and max. load current

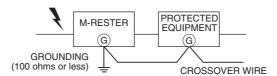
Signal (L1, L2) each: approx. \leq 10 Ω ; max. 100 mA Excitation (+, -) each: approx. \leq 4 Ω ; max. 200 mA Excitation (S+, S-) each: approx. \leq 10 Ω ; max. 100 mA

MODEL: MD-LC2

CONNECTION EXAMPLES

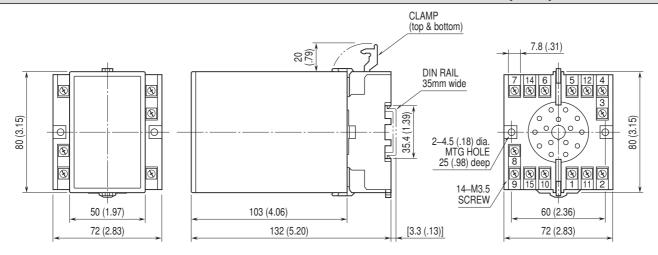


GROUNDING



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.

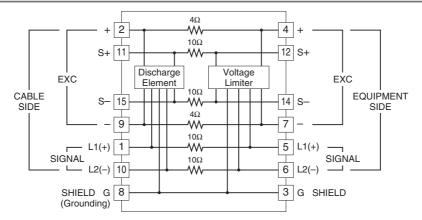
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



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

MODEL: MD-LC2

SCHEMATIC CIRCUITRY



 \triangle

Specifications are subject to change without notice.