

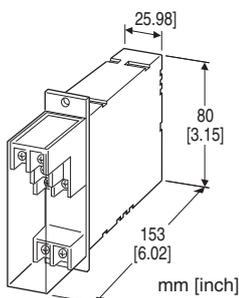
Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR STANDARD SIGNAL LINE & PULSE USE

(24 V DC; rack mounted)

Functions & Features

- Designed specifically for 4 - 20 mA DC and pulse signal line including both 4-wire and 2-wire transmitters
- Absorbing surges only without affecting instrumentation signal
- Rack-mounted
- Two channels in one housing



MODEL: MGD-24

ORDERING INFORMATION

- Code number: MGD-24

GENERAL SPECIFICATIONS

Construction: Rack-mounted; terminal access via screw terminals at the front; 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: Rack-mounted; Standard Rack Mounting Frame BX-16G available

Weight: 200 g (0.44 lb)

PERFORMANCE

Discharge voltage (peak voltage)

Line to line: 30 V min.

Line to ground: ±500 V max.

Max. surge voltage

Line to line: 40 V max.

Line to ground: ±650 V max.

(The maximum voltage that could pass through the surge protector. Protected equipment must be able to withstand this voltage for a very short time period.)

Response time: ≤ 0.1 μsec.

Leakage current:

Line to line: ≤ 5 μA @ 30 V DC

Line to ground: ≤ 5 μA @ ±140 V DC

Max. discharge current (Imax): 1000 A (8/ 20 μsec.)

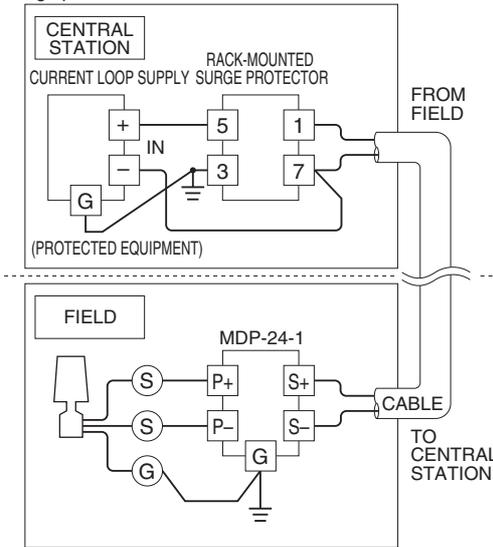
Max. load current: 100 mA

Internal series resistance: Approx. 20 Ω including return

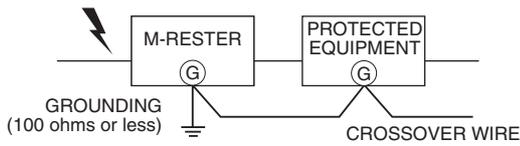
Maximum line voltage: 30 V

CONNECTION EXAMPLES

Connection example with Ch.1 of rack-mounted surge protector and model MDP-24-1/65-1.

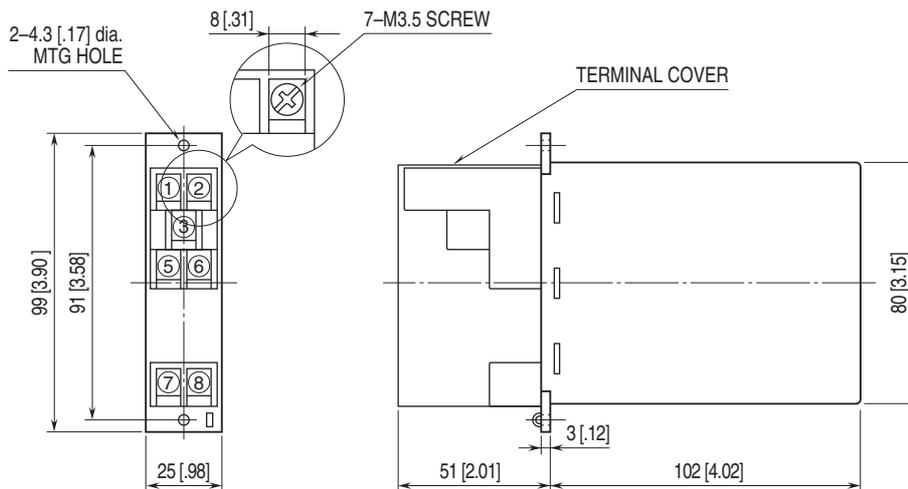


GROUNDING



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.

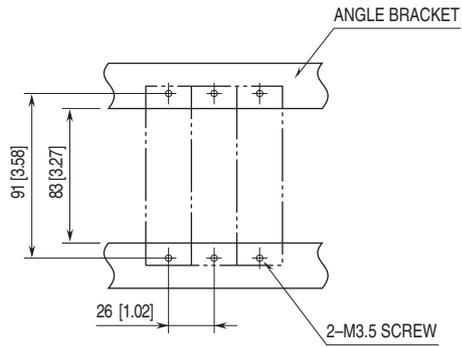
EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm [inch]



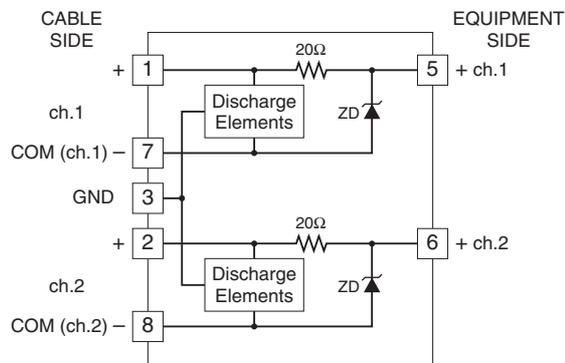
• When mounting, no extra space is needed between units.

MOUNTING REQUIREMENTS unit: mm [inch]

■ ANGLE BRACKET



SCHEMATIC CIRCUITRY



Specifications are subject to change without notice.