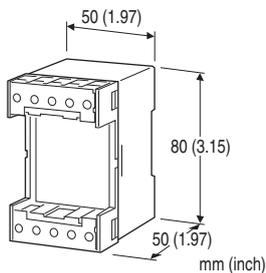


## Lightning Surge Protectors for Electronics Equipment M-RESTER

### LIGHTNING SURGE PROTECTOR FOR STANDARD SIGNAL LINE USE

#### Functions & Features

- Designed specifically for 4 - 20 mA DC line including both 4-wire and 2-wire transmitters
- Voltage & current signals up to 30 V DC
- Absorbing surges only without affecting instrumentation signal
- Shallow depth
- DIN rail mounting



## MODEL: MDK-24

### ORDERING INFORMATION

- Code number: MDK-24

### 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 lbs)

### PERFORMANCE

**Discharge voltage (peak voltage)**

Line to line: 30 V min.

Line to ground: ±290 V min.

**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 at 30 V DC

Line to ground: ≤ 5 μA at ±290 V DC

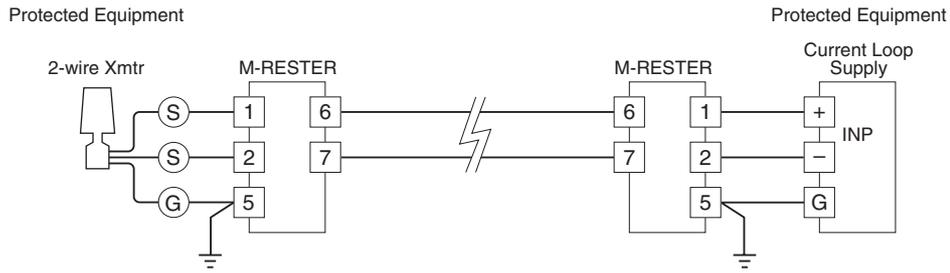
**Discharge current capacity:** 5000 A (8 / 20 μsec.)

**Max. load current:** 100 mA

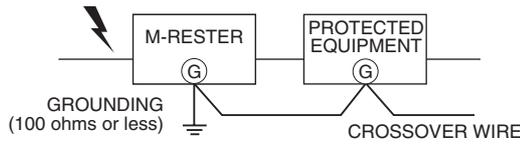
**Internal series resistance:** 20 Ω ±5 %

**Maximum line voltage:** 30 V

## CONNECTION EXAMPLES

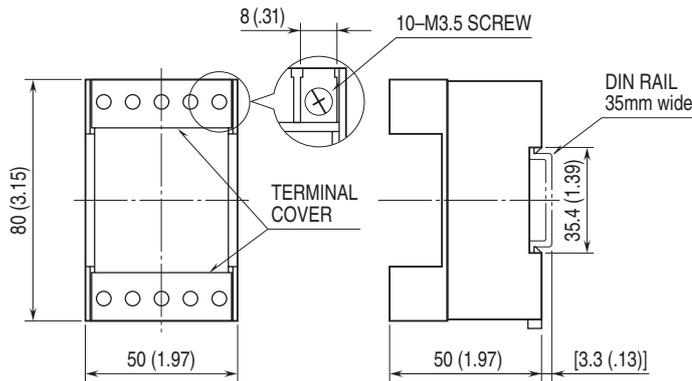


## GROUNDING



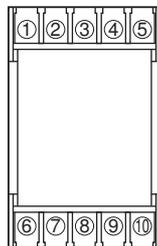
A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection.  
If the protected equipment has no ground terminal, ground the M-RESTER only.

## DIMENSIONS unit: mm (inch)

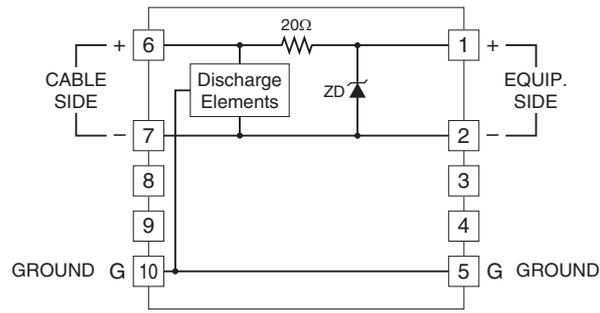


•When mounting, no extra space is needed between units.

## TERMINAL ASSIGNMENTS



**SCHEMATIC CIRCUITRY**



Specifications are subject to change without notice.