

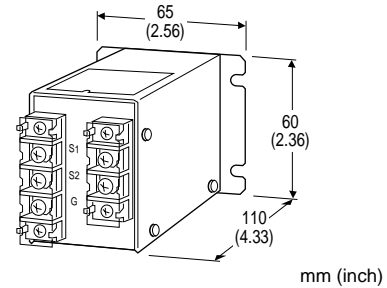
Lightning Surge Protectors for Electronics Equipment *M-RESTER*

LIGHTNING SURGE PROTECTOR FOR STANDARD SIGNAL LINE USE (high speed/high discharge current capacity)

MODEL **MMDH**

MODEL & SUFFIX CODE SELECTION

MODEL _____ MMDH-□
 LINE VOLTAGE _____
 24: 24V DC



Functions & Features

- Designed specifically for 4 – 20mA DC line including both 4-wire and 2-wire transmitters
- Discharge current capacity 20000A
- Absorbing surges only without affecting instrumentation signal

Typical Applications

- High discharge current capacity is beneficial for use in area with frequent lightnings

ORDERING INFORMATION

Specify code number. (e.g. MMDH-24)

RELATED PRODUCTS

- Lightning arrester for power supply use (model: MMAH)

GENERAL SPECIFICATIONS

Construction: wall-mounted, front terminals; terminal cover provided
Connection: M4 screw terminals (nickel-plated steel; torque ≤0.8 N·m)
Housing material: SPCC t=1.6 (black)

INSTALLATION

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90% RH (non-condensing)
Mounting: surface
Dimensions: W65×H60×D128 mm (2.56"×2.36"×5.04")
Weight: 440 g (0.97 lbs)

PERFORMANCE

Discharge voltage

Between lines: ±40V min.
Line to ground: ±290V min.

Maximum surge voltage*

Between lines: ±50V max.
Line to ground: ±800V max.

*The maximum voltage that could pass through M-RESTER. Protected equipment must be able to withstand this voltage for very short time period.

Leakage current

Between lines: ≤5μA at ±30V DC
Line to ground: ≤5μA at ±140V DC

Maximum line voltage: ±30V

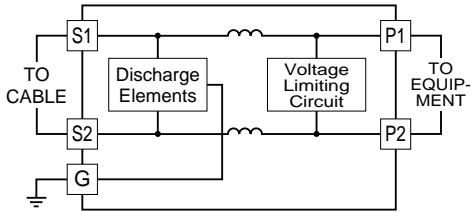
Response time: 4 nanoseconds

Discharge current capacity: 20000A (8 / 20 μsec.)

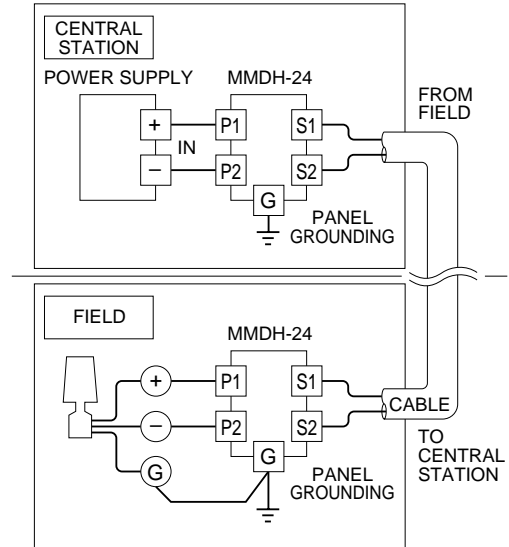
Maximum load current: 0.1A

Internal series resistance: ≤0.4Ω including return

SCHEMATIC CIRCUITRY



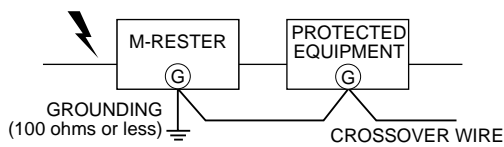
CONNECTION DIAGRAM



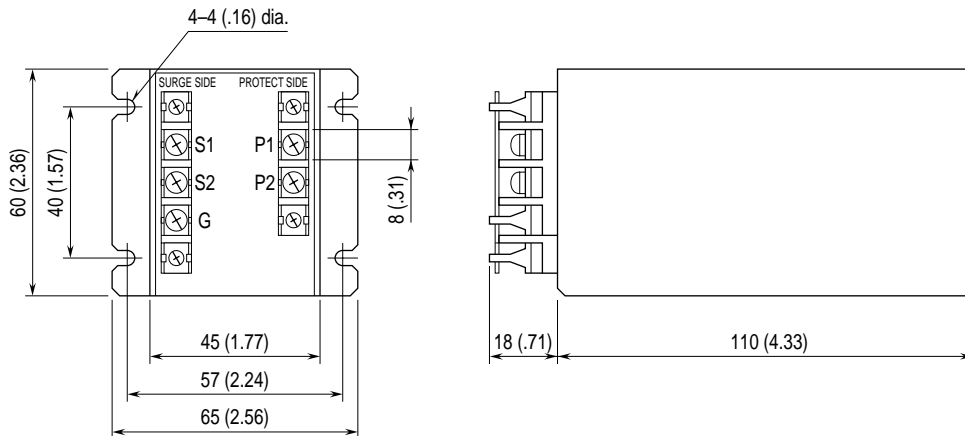
GROUNDING

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

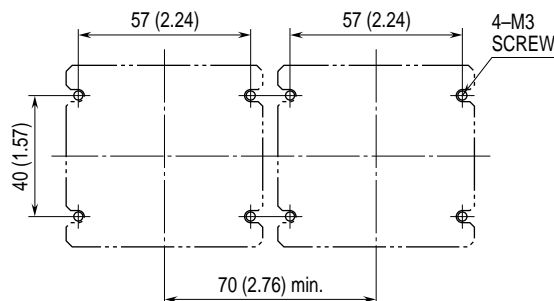
When the protected equipment has no ground terminal, ground only the M-RESTER.



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT mm (inch)



MOUNTING REQUIREMENTS mm (inch)



Specifications subject to change without notice.