Lightning Surge Protectors for Electronics Equipment *M-RESTER*

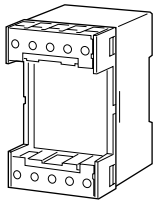
LIGHTNING SURGE PROTECTOR FOR STANDARD SIGNAL LINE USE

MODEL **MDK-24**

MODEL & SUFFIX CODE SELECTION

MDK–24

MODEL



Functions & Features

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

ORDERING INFORMATION

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

GENERAL SPECIFICATIONS

Construction: discrete box, front terminals; terminal cover provided
Connection: M3.5 screw terminals (nickel-plated steel; torque ≤0.8 N·m)
Housing material: flame-resistance resin (black)

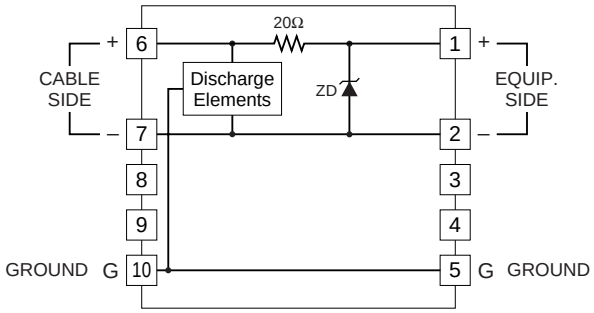
INSTALLATION

Operating temperature: -5 to +55°C (23 to 131°F)
Operating humidity: 30 to 90% RH (non-condensing)
Mounting: DIN rail
Dimensions: W50×H80×D50 mm (1.97"×3.15"×1.97")
Weight: 150 g (0.33 lbs)

PERFORMANCE

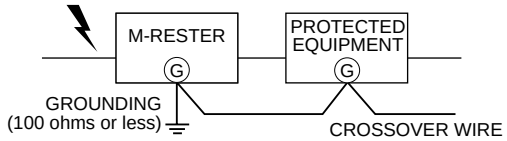
Discharge voltage
Between lines: 30V min.
Line to ground: ±290V min.
Maximum surge voltage*
Between lines: 40V max.
Line to ground: ±650V max.
*The maximum voltage that could pass through M-RESTER. Protected equipment must be able to withstand this voltage for very short time period.
Response time: ≤0.1 microseconds
Discharge current capacity: 5000A (8 / 20 μsec.)
Maximum load current: 100mA
Internal series resistance: 20Ω ±5%
Leakage current
Between lines: ≤5μA at 30V DC
Line to ground: ≤5μA at ±290V DC
Maximum line voltage: 30V

SCHEMATIC CIRCUITRY

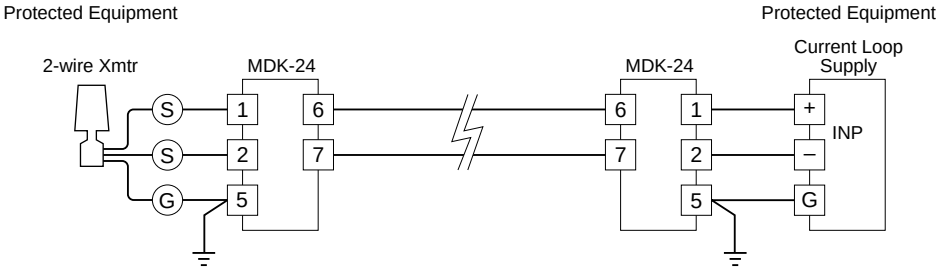


GROUNDING

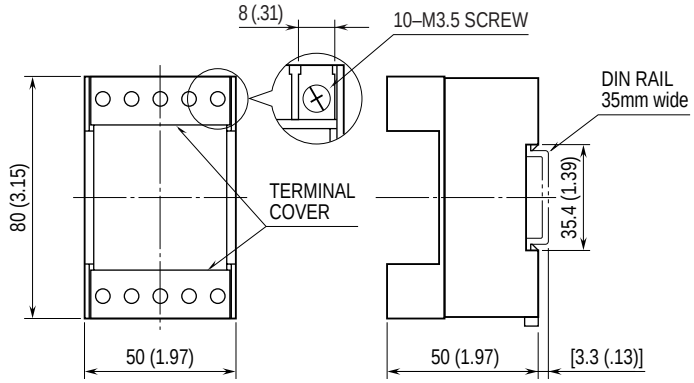
A crossover wire between M-RESTER ground and ground or metallic housing of equipment is required for protection.



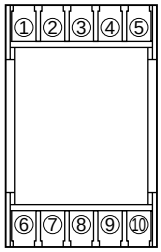
CONNECTION DIAGRAM



EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENT mm (inch)



■TERMINAL ASSIGNMENT



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

Specifications subject to change without notice.