Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR LOW FREQUENCY USE

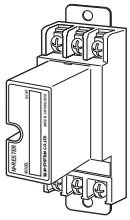
Functions & Features

• Designed specifically to protect frequency generating devices such like flowmeters and frequency transmitters from lightning surge damage that enters on the wiring between these instruments

• Absorbs surges only without affecting instrumentation signal

• No interruption of signal by unplugging the protector element

• CE marking



MODEL: MDP-SP[1]

ORDERING INFORMATION

• Code number: MDP-SP[1]

Specify a code from below for [1].

(e.g. MDP-SP/A33)

[1] OPTIONS

DIN Rail Mounting Adapter

blank: Without

/A33: With adapter (model A-33)

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M4 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: Surface or DIN rail

Weight: 140 g (0.31 lb), standard

165 g (0.36 lb), with DIN rail mounting adapter

PERFORMANCE

Max. continuous operating voltage (Uc):

B to C: ±14 V min.

B or C to A: 14 V min.

Line to earth: ±140 V min.

Voltage protection level (Up):

• @ 1 kV (100 A)

2 to 3: ±30 V max.

2 or 3 to 1: 30 V max.

Line to earth: ±650 V max.

• @ 2 kV (1 kA)

2 to 3: ±30 V max.

2 or 3 to 1: 30 V max.

Line to earth: ±800 V max.

Response time: ≤ 0.1 µsec.

Leakage current:

B to C: ≤ 10 µA @ ±14 V DC

B or C to A: ≤ 10 µA @ 14 V DC

Line to earth: ≤ 10 µA @ ±140 V DC

Max. discharge current (Imax): 5000 A (8 / 20 µs)

Nominal current (I_N): 50 mA

Internal series resistance: 10 Ω ±10 %

Capacitance @ 1 MHz:

Line to line: ≤ 1000 pF

Line to earth: ≤ 100 pF

STANDARDS & APPROVALS

CE conformity:

EMC Directive (2004/108/EC)

EMI EN 61000-6-4: 2007

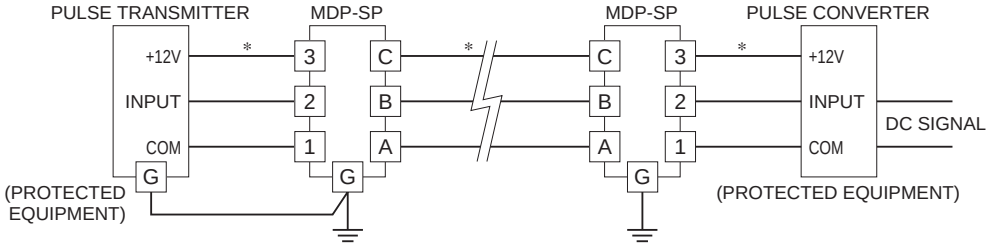
EMS EN 61000-6-2: 2005

Surge protection: IEC 61643-21: 2000

(Categories C1, C2)

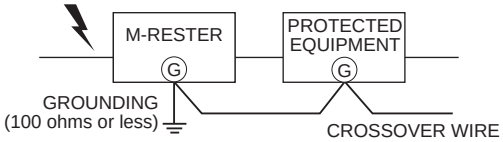
幸託有限公司
XIN TOP CORPORATION
TEL：(02)2598-1199 E-mail：info@xintop.com
FAX：(02)2596-2331 Website：www.xintop.com

CONNECTION EXAMPLES



*When there is no need of power supply, the cable is also unnecessary.

GROUNDING

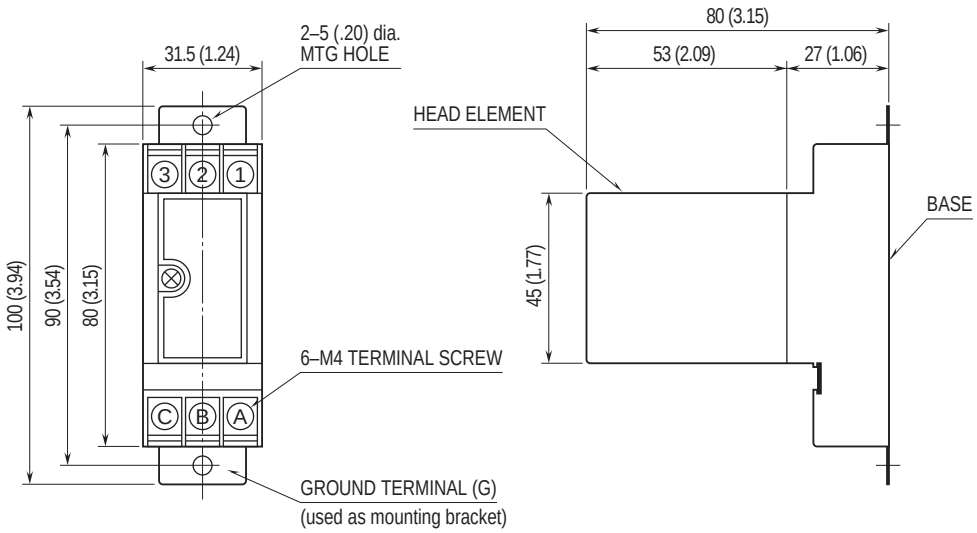


A crossover wire between M-RESTER ground and the ground or metallic housing of the equipment is required for protection.
If the protected equipment has no ground terminal, ground the M-RESTER only.
When the M-RESTER is mounted with DIN Rail Mounting Adapter, connect the grounding wire to the mounting screw of the M-RESTER.

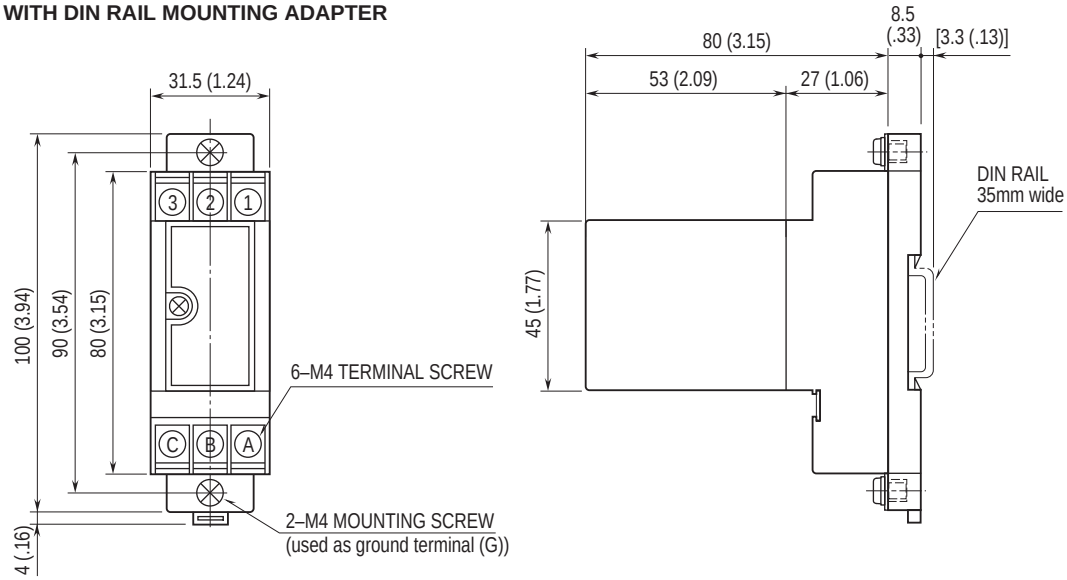
幸託有限公司
XIN TOP CORPORATION
TEL：(02)2598-1199
FAX：(02)2596-2331
E-mail：info@xintop.com
Website：www.xintop.com

EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)

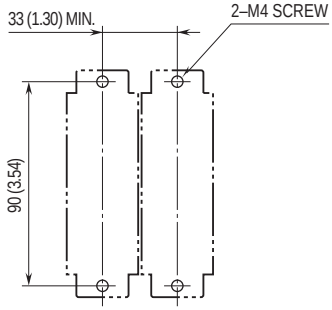
■ STANDARD



■ WITH DIN RAIL MOUNTING ADAPTER

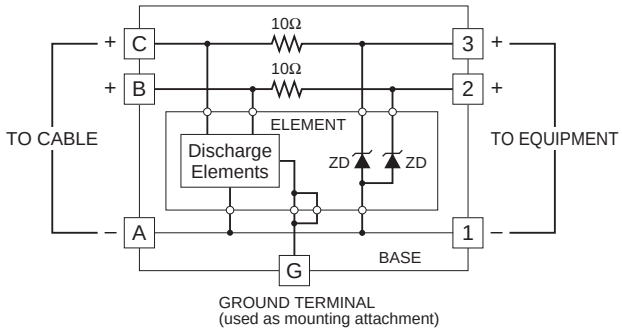


MOUNTING REQUIREMENTS unit: mm (inch)



XIN TOP WORLD WIDE SERVICE
幸託有限公司
XIN TOP CORPORATION
TEL：(02)2598-1199
FAX：(02)2596-2331
E-mail：info@xintop.com
Website：www.xintop.com

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



⚠ Specifications are subject to change without notice.

幸託有限公司
XIN TOP CORPORATION
TEL：(02)2598-1199
FAX：(02)2596-2331
E-mail：info@xintop.com
Website：www.xintop.com