Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR STANDARD SIGNAL LINE & PULSE USE

(conduit mount, weather-proof; 65 V DC line voltage)

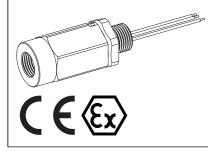
Functions & Features

• Designed specifically for 4 – 20 mA DC and pulse signal line including both 4-wire and 2-wire transmitters

- Direct mount in a wiring conduit of outdoor
- enclosures

• Absorbs surges only without affecting instrumentation signal

• CE marking (conforms to ATEX and EMC)



MODEL: MD6T-65-[1][2][3]

ORDERING INFORMATION

• Code number: MD6T-65-[1][2][3] Specify a code from below for [1] through [3] (e.g. MD6T-65-00B) For the safety approval code 4, specify the product's destination country using Ordering Information Sheet (No. ESU-8284).

[1] SAFETY APPROVAL

0: None 4: CENELEC flameproof (ATEX)

[2] WIRING CONDUIT

0: G 1/2 (Not selectable for CENELEC flameproof approval) 1: 1/2 NPT 2: M20 \times 1.5

[3] BODY MATERIAL

B: Brass S: Stainless steel

CAUTION

The packing of the cable gland must be separate from the body. Choose an appropriate one for the environment in which the surge protector is used.

GENERAL SPECIFICATIONS

Degree of protection: IP65

Wiring conduit: See 'Ordering information.'

Connection

 $\label{eq:cable side: Terminal block (leadwire diameter: 0.14 - 1.5 $$mm^2$ for both stranded and solid wires; or AWG26 - 16)$}$

Equipment side: Leadwires (leadwire diameter AWG20 for grounding; AWG22 for the protected equipment) **Body material**: Nickel-plated brass or stainless steel 316

INSTALLATION

Operating temperature: -40 to +85°C (-40 to +185°F) (See Safety Parameters for use in a hazardous location.) Mounting: Screwed into an electrical conduit of outdoor enclosures Weight: 500 g (1.1 lbs)

PERFORMANCE

Discharge voltage (peack voltage) Line to line: 70 V min. Line to ground: ±160 V min. Max. surge voltage Line to line: 100 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: Line to line: \leq 4 nsec. Line to ground: \leq 20 nsec. Leakage current: Line to line: \leq 5 μ A @ 70 V DC Line to ground: \leq 5 µA @ ±160 V DC Discharge current capacity: 10000 A (8/ 20 µsec.) Max. load current: 100 mA Internal series resistance: Approx. 22 Ω including return Max. line voltage Without safety approval: 70 V DC With safety approval: 66 V DC Capacitance @ 1 kHz: Line to line: $\leq 2500 \text{ pF}$ Line to ground: \leq 100 pF



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STANDARDS & APPROVALS

CE conformity:

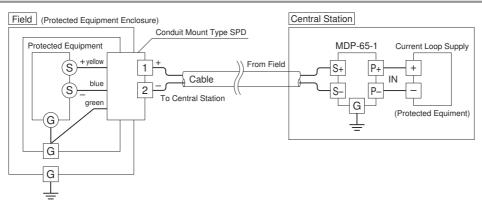
ATEX Directive (94/9/EC) Ex d EN 60079-1: 2004 EMC Directive (2004/108/EC) EMI EN 61000-6-4: 2007 EMS EN 61000-6-2: 2005

Safety approval:

SAFETY PARAMETERS

Operating temperature: T5 -40 to +80°C T6 -40 to +75°C -40 to +75°C for CENELEC (ATEX) flameproof

CONNECTION EXAMPLES



Connect the MD6T's green leadwire to the ground terminal inside the protected equipment enclosure to ground through the enclosure's outside ground terminal.

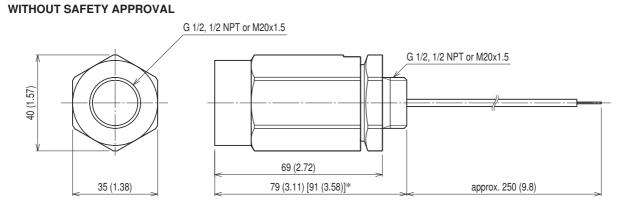
If the enclosure does not have an inside ground terminal, connect the green leadwire directly to the outside ground wire pulled inside the enclosure. Keep the ground wire as short as possible.



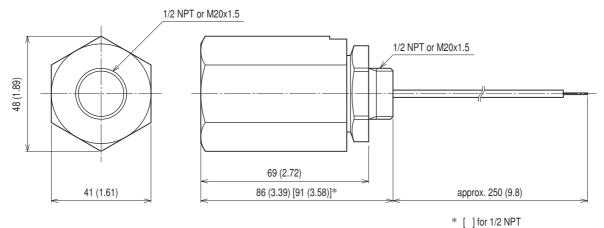
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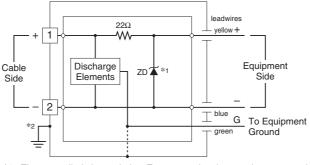
DIMENSIONS unit: mm (inch)



WITH SAFETY APPROVAL



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*1. The zenor diode has polarity. Zero-cross signal cannot be connected.*2. Use only when the signal line require functional grounding. This is NOT for surge protection.

Specifications are subject to change without notice.

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