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)

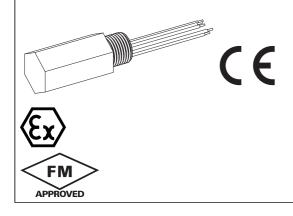
Functions & Features

• 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: MD6P-65-[1][2][3]

SELECTABLE WIRING CONDUITS SPECIFIC TO EACH APPROVAL 'N' marked combinations are not selectable.

APPROVAL WIRING CONDUIT	0	3	4
0	Y	Ν	Ν
1	Y	Y	Y
2	Y	N	Y

ORDERING INFORMATION

• Code number: MD6P-65-[1][2][3] Specify a code from below for [1] through [3] (e.g. MD6P-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 3: FM explosion-proof

4: CENELEC flameproof (ATEX)

Confirm selectable combinations of approval and wiring conduit types in the table.

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[2] WIRING CONDUIT

0: G 1/2

1: 1/2 NPT

2: M20 × 1.5

Confirm selectable combinations of approval and wiring conduit types in the table.

[3] BODY MATERIAL

- **B**: Brass
- S: Stainless steel

GENERAL SPECIFICATIONS

Degree of protection: IP65 Wiring conduit: See 'Ordering information.' Electrical connection: Leadwires Leadwire diameters Cable side & grounding: AWG20 Protected equipment side: AWG22 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: 300 g (0.66 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 µA @ 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



TEL : (02)2598-1199 E-mail : info@xintop.com FAX : (02)2596-2331 Website : www.xintop.com Capacitance @ 1 kHz: Line to line: \leq 2500 pF Line to ground: \leq 100 pF

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**: FM: Explosion-proof and Dust-ignition proof Class I, Div. 1, Groups A, B, C and D Class II, Div. 1, Groups E, F and G Class III, Div. 1 T6 (Class 3615: 2006) CENELEC: Flameproof (ATEX) ⓒ II 2G, Ex d IIC; T5 and T6 (EN 60079-1: 2004)

SAFETY PARAMETERS

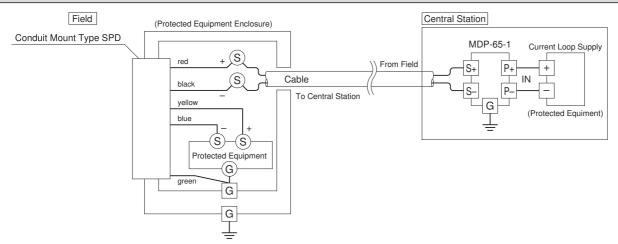
Operating temperature:

T5 -40 to +80°C T6 -40 to +70°C -40 to +75°C for CENELEC (ATEX) flameproof -40 to +80°C for FM explosion-proof

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CONNECTION EXAMPLES



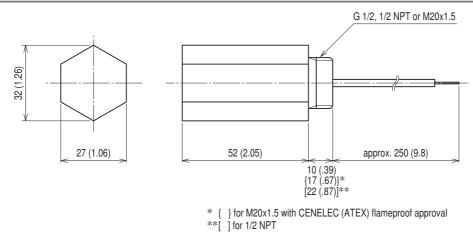
Connect the MD6P's green leadwire to the ground terminal inside the protected equipment enclosure to ground through the enclosure's outside ground terminal.

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.

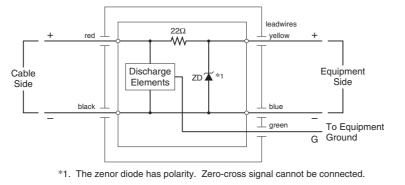


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DIMENSIONS unit: mm (inch)



SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



Specifications are subject to change without notice.

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