MODEL: MD-DNS

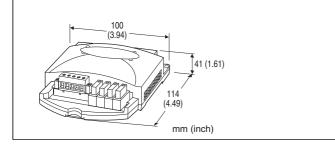
Lightning Surge Protectors for Electronics Equipment M-RESTER

LIGHTNING SURGE PROTECTOR FOR DeviceNet

Load capacity 2 A

Functions & Features

• Designed specifically to protect devices connected to DeviceNet from lightning surges



MODEL: MD-DNS

ORDERING INFORMATION

• Code number: MD-DNS

GENERAL SPECIFICATIONS

Construction: Stand-alone

Connection: Euro type connector terminal **Housing material**: Flame-resistant resin (black)

Alarm indicator: Surge absorber failure indicator turns white

when the fuse is blown.

Alarm relay contact: Turns on in an abnormality of surge

absorber element (when the safety fuse is blown).

Rating: 30 V DC @ 0.5 A (resistive load)
Max. switching voltage: 125 V AC/DC

Max. switching power: 25 VA Min. load: 5 V DC @ 1 mA

ODVA approval: Not approved (No relevant product

category exists for surge protectors.)

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**: 400 g (0.88 lbs)

Number of modules: Max. 4 modules per network

PERFORMANCE

Discharge voltage (peak voltage)

Signal line

Line to line: ±5 V min.

Line to ground: ±280 V min.

· Power line

Line to line: 26 V min. Line to ground: ±280 V min.

• Drain

Line to ground: ±280 V min.

Maximum surge voltage

(The maximum voltage that could pass through M-RESTER. Protected equipment must be able to withstand this voltage $\,$

for very short time period.)

Signal line

Line to line: ±15 V max. Line to ground: ±800 V max.

Power line

Line to line: 120 V min. Line to ground: ±650 V max.

• Drain

Line to ground: ± 800 V max. Response time: ≤ 0.1 µsec.

Leakage current

Signal line: ≤ 0.3 mA at ±5 V DC
 Power line: ≤ 0.3 mA at 26 V DC
 Line to ground: ≤ 20 μA at ±280 V DC
 Discharge current capacity: 1500 A

Maximum load current
• Signal line: 100 mA
• Power line: 2 A

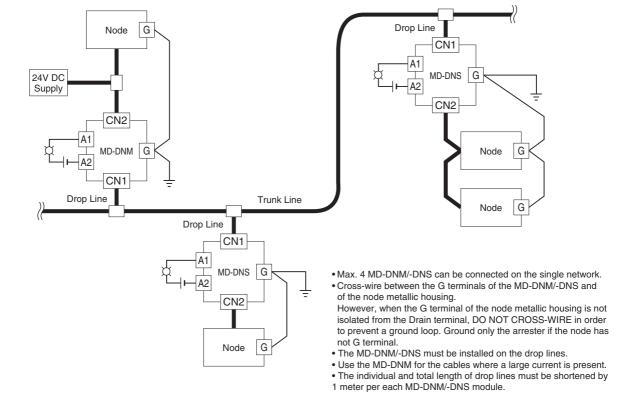
Internal series resistance • Signal line: $2 \Omega \times 2$ • Power line: $\leq 0.2 \Omega$ Maximum line voltage • Signal line: $\pm 5 \text{ V}$ • Power line: 26 V

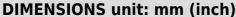
Capacitance

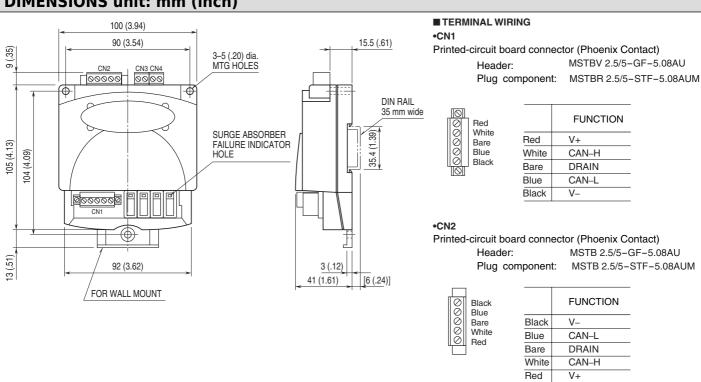
• Signal line: Approx. 25 pF @ 100 kHz • Line to ground: Approx. 25 pF @ 100 kHz

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CONNECTION EXAMPLES







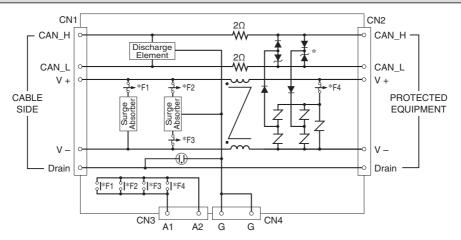


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MODEL: MD-DNS

SCHEMATIC CIRCUITRY



*DO NOT CONNECT the communication line across CAN_H and CAN_L. Such a wrong connection may destroy diodes, or result in a network malfunction caused by a power line voltage decrease.



Specifications are subject to change without notice.

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