

MastMinder MB-4 Surge Arrester

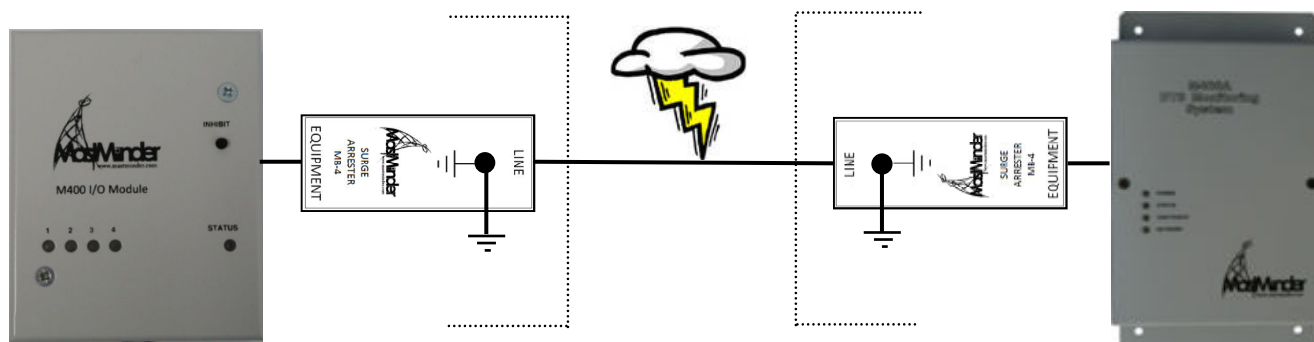
Lightning Surge Protection Device for MastMinder Mbus

The **MastMinder® MB-4** lightning surge arrester is designed to protect MastMinder equipment installed in locations where there is a high risk of equipment damage due to lightning induced surges.



The **MastMinder® MB-4** is typically installed in series with the 4-wire Mbus connection at a point close to where the external Mbus cable enters the building or enclosure. Combining both ultra-fast transient suppression semiconductors and ultra high current gas discharge technology the unit offers a high degree of protection from high voltage and high current surges induced into the external cables by nearby lightning strikes.

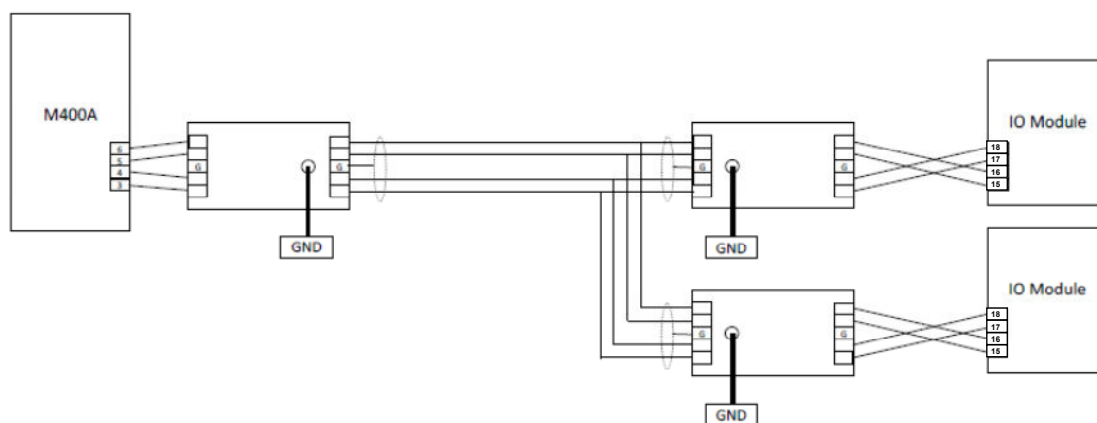
- Provides repeated protection in lightning intense environments
- Self resetting design
- Low let-through voltage between all lines
- Low in-line resistance
- 35mm DIN rail or bulkhead mounting
- 4 signal wires protected (2 x twisted pair)
- Screen terminal
- Substantial earth stud enables effective earthing



Typical Installation

Installation instructions

- Install the Surge Arrestors as shown below.
- Note that the screen (earth) in the cable is not used at each equipment end and is to be disconnected from Ground on the M400.
- The screen (earth) in the cable is connected into the centre terminal at each end of the line.
- Please look carefully at the diagram below.
- Ensure Earth cable is very good ground using minimum of 6mm Copper cable or 10mm Aluminium if copper not available.



Specifications

Electrical Specification

Maximum Signal Voltage	9V
Maximum Signal Current	100mA
In-Line Resistance	10 Ω
Maximum Leakage	10 μ A
Signal Bandwidth	800Khz

Transient Protection

Maximum let-through voltage	15.4V for 5000V, 8/20 μ S pulse
Transient Response Time	< 1pS
Maximum Surge Current	10,000A

Mechanical

Connection Type	Plug-in screw terminal
Max wire size	1mm ²
Earth Connection	6mm Stud
Dimensions	85mm x 34mm x 20mm
Mounting	35mm DIN Rail or wall bracket

Environmental

Operating Temperature	-20 - +70 °C
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