

LPU

Lightning Protection Modules

Description

The iMAC-LPU Lightning Protection Modules have been specifically designed to protect the iMAC Modules from lightning.

Damage to the iMAC Modules is always a possibility when the module is installed along an overland conveyor. The iMAC LPU Modules are compact in size thus allowing the module to be installed in a conveyor pullkey with an iMAC Module. A maximum of three iMAC Modules can be connected to the LPU Module.

In this application the LPU Modules provide differential voltage protection to the modules connected to the iMAC Communication Line. There is no common mode protect to avoid any connection to earth.

The iMAC-LPU Modules are designed to operate in the following two modes:

- Minor Lightning Strike/Surge – The LPU Modules diverts harmful energy away from the iMAC Module.
- Major Lightning Strike/Surge – The LPU becomes sacrificial, limiting damage to the iMAC Module.

Features

- Encapsulated Electronics
- Compact design
- 2 wire and 3 wire option available

LED Status Indication

Not applicable.

Data Mapping

Not Applicable.

Programming Procedures

The module is not programmable.

Specifications

Protection:

DC Spark Over 90V

Impulse Spark Over at 100V/ μ S <500V

Impulse Discharge Current 20kA

AMPCONTROL ELECTRONICS

Ampcontrol CSM Pty Ltd ABN 35 000 770 141
7 Billbrooke Close CAMERON PARK NSW 2285

Phone: (02) 4903 4800

Fax: (02) 4903 4888

E-mail: electronics@ampcontrolgroup.com

Web site: www.ampcontrolgroup.com



Equipment Part Number List

118911 iMAC LPU 2 Wire

142326 iMAC LPU 3 Wire

Connection Diagrams

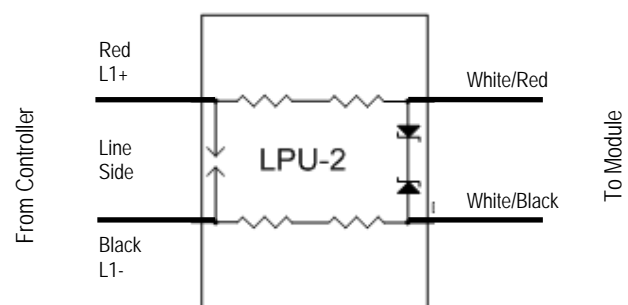


Figure 1 – LPU 2 wire connection diagram

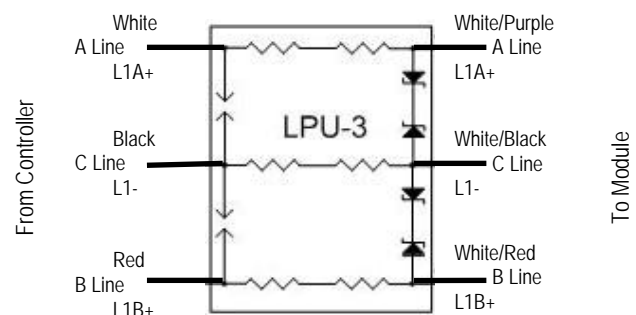


Figure 2 – LPU 3 wire connection diagram

General Arrangement

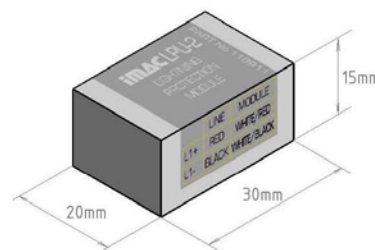


Figure 3: - General Arrangement

Technical Support: imacuser@ampcontrolgroup.com