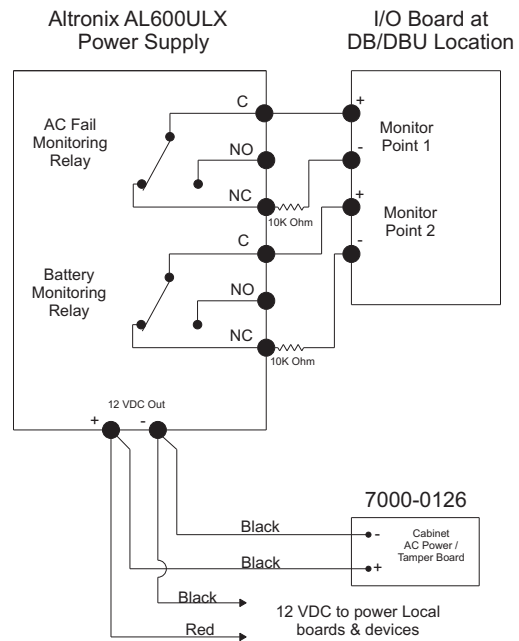


UL Compliance Notes:

- 1). For UL1076 Proprietary Burglar Alarm Systems and Non-Stand Alone UL294 Access Control System (central monitoring employed) installations, Altronix AL600ULX power supply must be used for system battery supervision function.
- 2). When using Altronix AL600ULX power supply, the installer will need to provide a remote input to the 8DC to monitor AC power loss and battery supervision conditions as indicated below:



Program Monitor Point 1 as 3 State N.C., and program the Monitor Point Message to read "AC Power Fail, (Add Board Description)"

Program Monitor Point 2 as 3 State N.C., and Alarm Message should read "Battery Trouble, (Add Board Description)"

- 3). For UL294 Stand-Alone Installations, the MN-TRANS-150-UL and MN-PSU-6A can be employed.

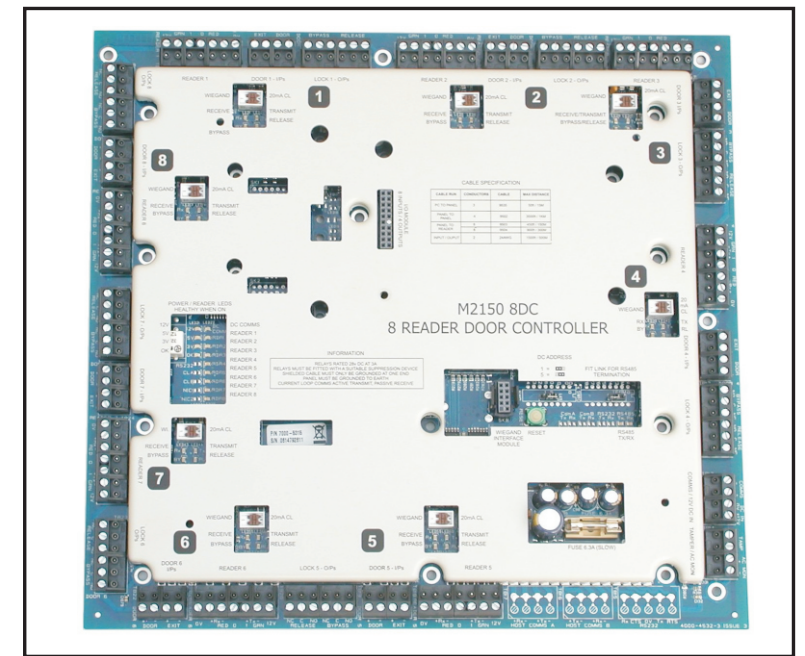
M2150 8DC Installation Instructions

The 8DC is used to expand a database unit, by enabling direct connection of eight extra 20mA or Wiegand readers. Additional monitor points and auxiliary outputs are available by fitting an optional I/O Module (the module type determines the number of available monitor points and auxiliary outputs).

Note:

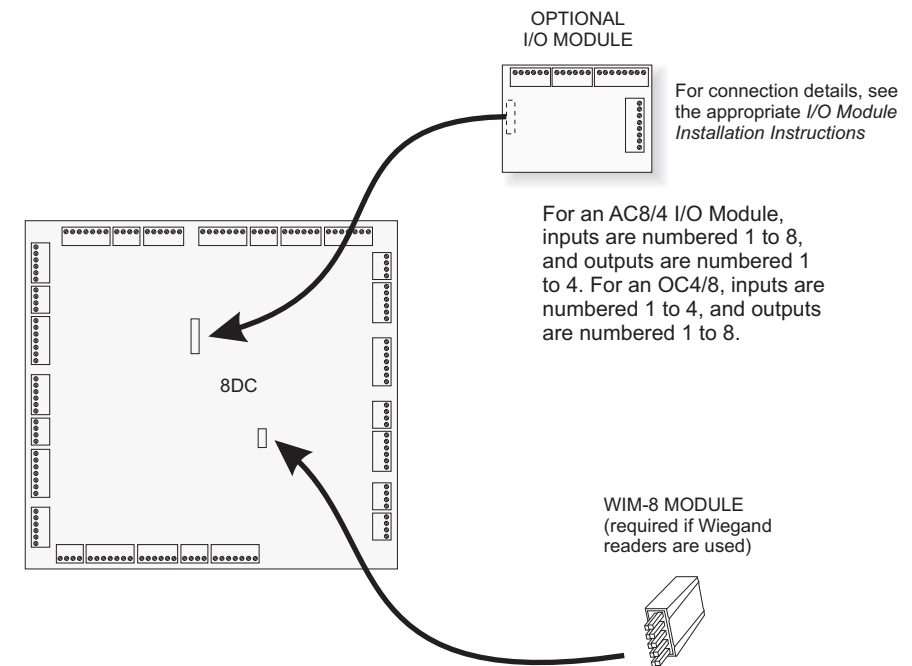
For additional information regarding the installation, configuration and proper use of this product:
 SMS User Guide, P/N 9600-0429
 M2150 Access Control Design Guide, P/N 9600-0420
 M2150 Intrusion Guide, P/N 9600-0540.
 M2150 UL1076 Compliance Manual, P/N 9600-0449.

Some devices described in these instructions may not be applicable for sites requiring UL compliance. Please refer to the *Access Control Design Guide* for details of the controllers, modules and features that have been UL tested for use with this device.



1 Mounting the Optional Modules

Note: For information on mounting the 8DC into the cabinet, refer to the appropriate cabinet installation instructions.



9600-0422. M2150 8DC Installation Instructions, Issue 1.5 11th July 2011. © G4S Technology 2011. G4S Technology Limited cannot be held liable for technical and editorial omissions or errors made herein; nor for incidental or consequential damages resulting from the furnishing, performance or use of this material. All trademarks acknowledged.
 NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference. In which case, the user will be required to correct the interference at his own expense.

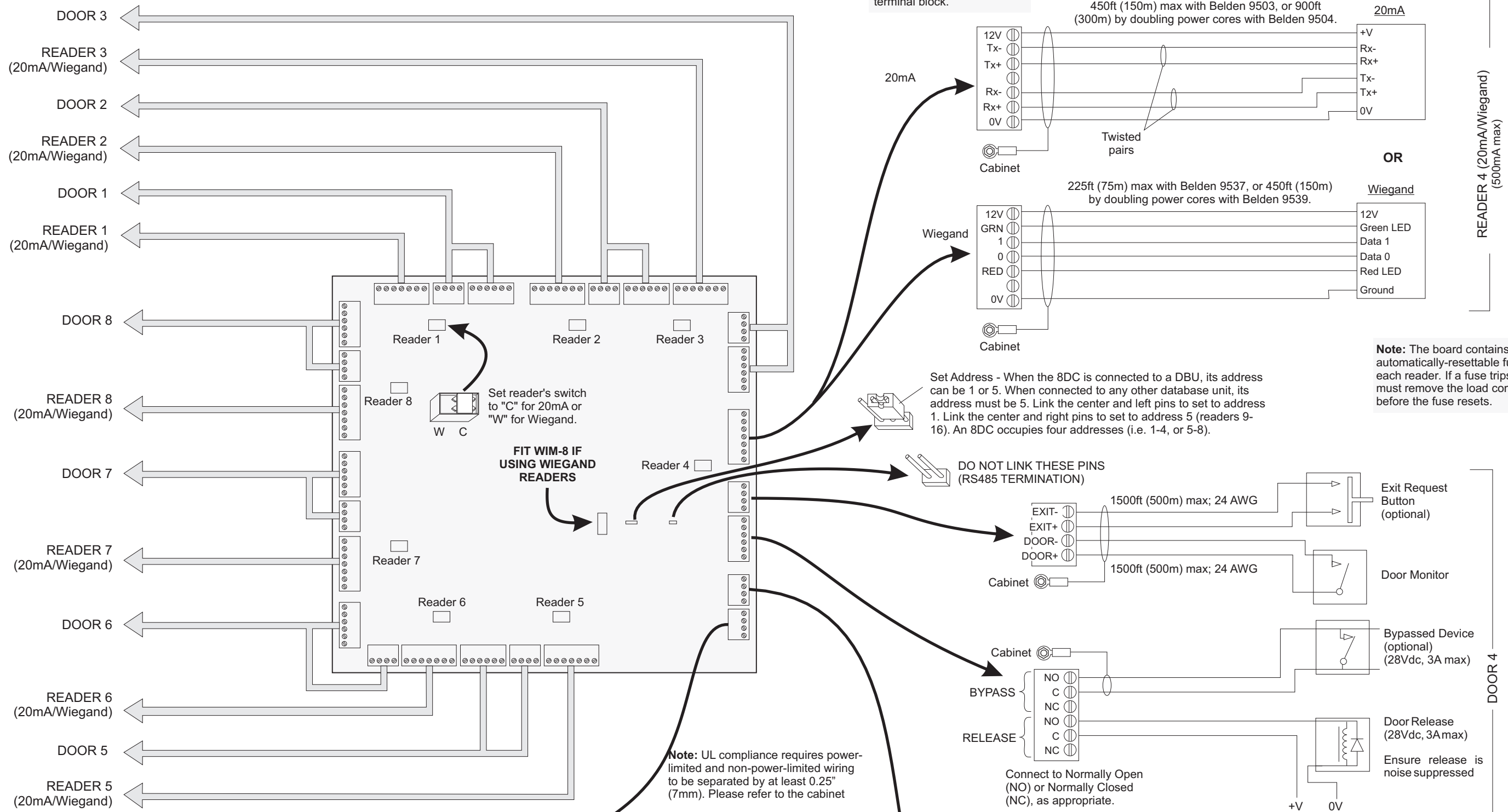
Specifications

Readers: 8 max.
Quiescent supply input: 100mA @11.7 to 12.7Vdc (excludes readers and optional modules, with no relays energized).
Maximum supply input: 590mA @11.7 to 12.7Vdc (all modules fitted, all board & module relays energized, excluding readers). Each relay on the 8DC consumes 20mA when energized.
Operating Range: 14 to 131°F (-10 to 55°C) max. Humidity 15 to 90% non-condensing; indoor use only.
Compliance: EN50133, 1999/5/EC, UL 294 Access Control & UL1076 Proprietary Burglar Alarm Systems.

Replacement Parts:
 Use only replacement parts provided by the manufacturer:
 F1, P/N R-0811-6301



Two readers at one door - Use an odd-numbered reader for entry reader and next even-numbered reader for exit reader. Door furniture connects to corresponding odd-numbered door.



Note: Actual output voltage nominally 13V at each reader terminal block.

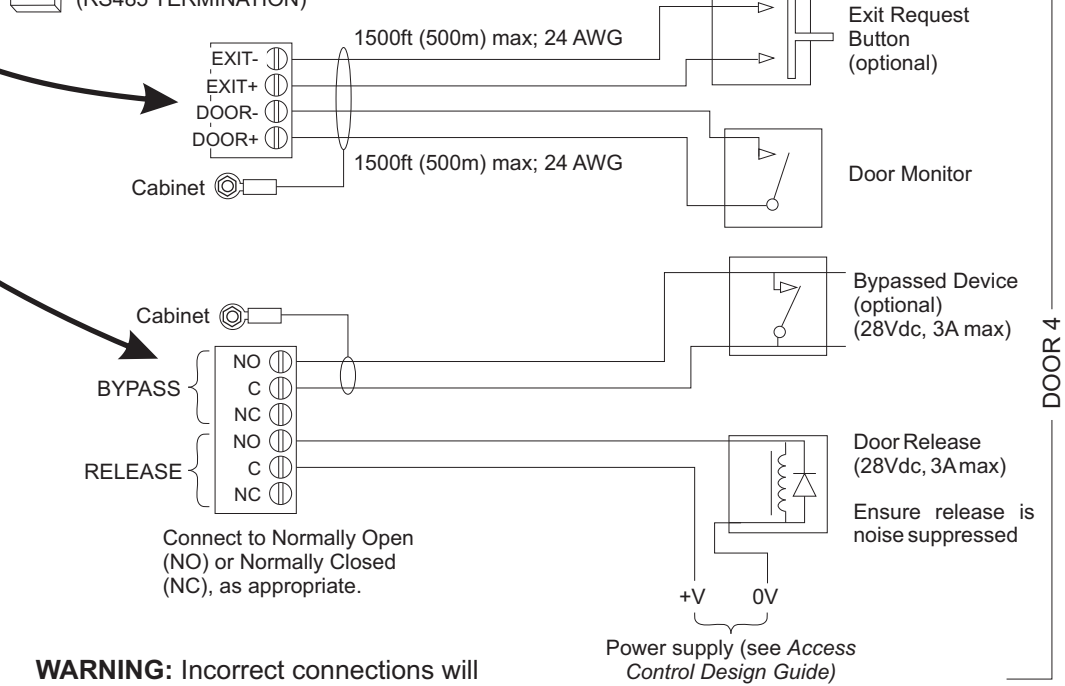
Note: The board contains an automatically-resettable fuse for each reader. If a fuse trips, you must remove the load completely before the fuse resets.

Set Address - When the 8DC is connected to a DBU, its address can be 1 or 5. When connected to any other database unit, its address must be 5. Link the center and left pins to set to address 1. Link the center and right pins to set to address 5 (readers 9-16). An 8DC occupies four addresses (i.e. 1-4, or 5-8).

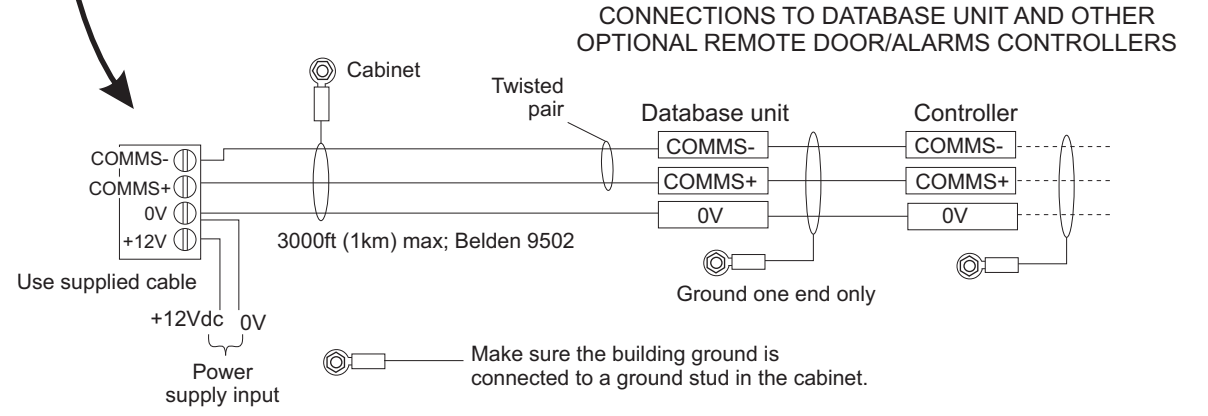
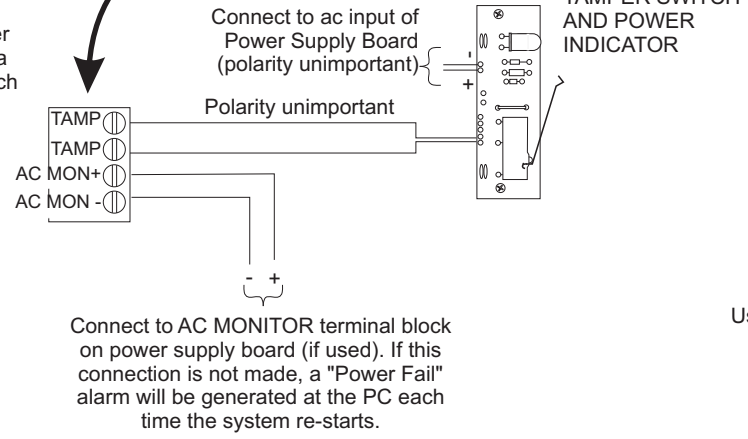
DO NOT LINK THESE PINS (RS485 TERMINATION)

FIT WIM-8 IF USING WIEGAND READERS

Set reader's switch to "C" for 20mA or "W" for Wiegand.



WARNING: Incorrect connections will permanently damage the board.



- Notes:**
- 1). Consult local AHJ (Authority Having Jurisdiction) when installing access control readers and locking mechanisms to any portal in an egress path.
 - 2). The use of Fail Closed / secure configuration shall be determined by local building codes and the local AHJ.
 - 3). Wiring methods shall be in accordance with NEC (National Electrical Code) ANS/NFPA 70.
 - 4). This device must be installed within the secure area / perimeter for UL1076 and UL294 Listed installations.
 - 5). Installer must provide Network Surge Protection by installing (per manufacturers installation instructions) 1 each APC PNet1GB Ethernet surge protection device in line with the RJ-45 Ethernet connector on this board prior to connecting this board to the local or wide area network.
 - 6). For Access Control Systems in a "Stand Alone" configuration only, the following Power supplies are to be installed: Model MN-PSU-6A and MN-TRANS-150-UL transformer. Any additional power supply used (e.g. for door releases and auxiliary outputs) must be power limited, UL listed for Access Control Systems and Accessories. All interconnecting devices must be UL Listed.
 - 7). Some devices described in these instructions may not be applicable for sites requiring UL compliance. Please refer to the *Access Control Design Guide* for details of the controllers, modules and features that have been UL tested for use with this device.