



# APPLICATION NOTE

## APP 117

### Revision History

Date	Author	Description
08-05-2016	DEW	Setup Application
10-06-2016	DEW	Edits from Brian

# Wiring the MCS-MAGNUM KEYPAD/LCD

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**CAUTION!**

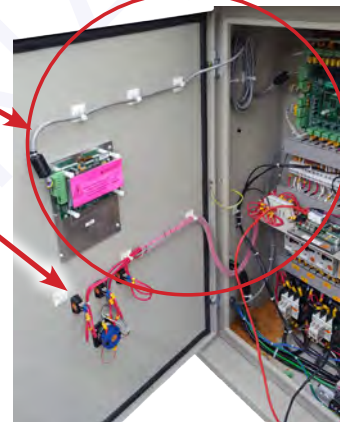
Remove all power before making any connections. Failure to do so might result in personal injury and/or equipment damage.

**ROUTING THE CABLE FOR MCS-MAGNUM KEYPAD**

MCS-MAGNUM Keypad/LCD cable should run through your enclosure as far away from any power cables as possible. Follow the steps below to avoid any interference.

1. Run your Keypad wiring from the MAGNUM in opposite directions (vertical or horizontal) from high amp cabling coming from relays, etc. **AVOID RUNNING DIRECTLY NEXT TO THESE TYPE CABLES.**
2. Keep high amp wiring away from the Keypad cable if you can, *see photo below:*

OEM Enclosure being rewired in the field- Photo shows how the Magnum Keypad/LCD cable is being run away from high amp wiring.



**IT IS IMPORTANT NOT TO HAVE ANY HIGH AMP WIRING RUNNING NEAR THE KEYPAD CABLE.**

When mounting the MAG-KEYPAD-OEM-232, fold over the black ground tab on the right side of the Keypad, and place the washer over the black tab. Fasten the nut on the Keypad.



3. Keep your Keypad wiring as short as possible in the enclosure. Avoid bundling up of the cable. If necessary cut and shorten cable. Make sure to keep the same wiring and Ferrite.
4. **ADD THE ADDITION OF A FERRITE ON EACH END OF YOUR KEYPAD WIRING TO SUPPRESS NOISE INTERFERENCE.**

Small Wire Tie added to avoid Ferrite from moving down the cable



Ferrite added onto each end of cabling from MAGNUM to MCS-KEYPAD as shown in photo