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**MODEL 412PLC**

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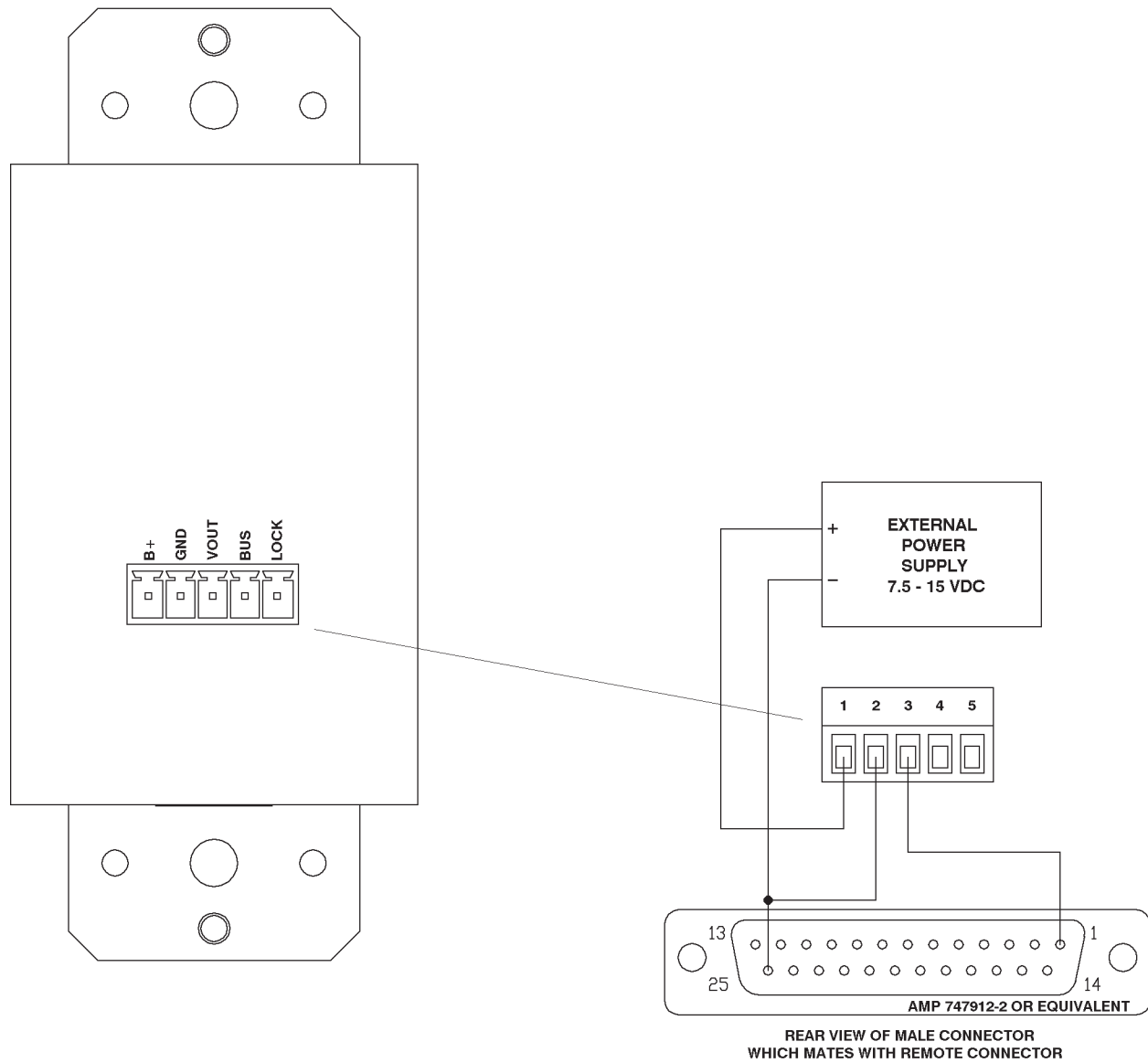
**PROGRAMMABLE LEVEL CONTROL**

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The 412PLC Programmable Level Control is a general purpose remote volume controller that can be connected with many IED systems including the 2000 Series UDAPS®, 4000 Series Automatic Mixer System, the 4400/4800 Series Automatic Mixer System, the 5000 Series Audio Processing System, and the 8000 Series TIPS®. It can also be bussed together with other 412PLCs for ganged operation. The 412PLC requires an external power supply of 7.5 to 15 VDC for its operation.

The Model 412PLC can be mounted in a standard single gang electrical box with a decorative type faceplate.



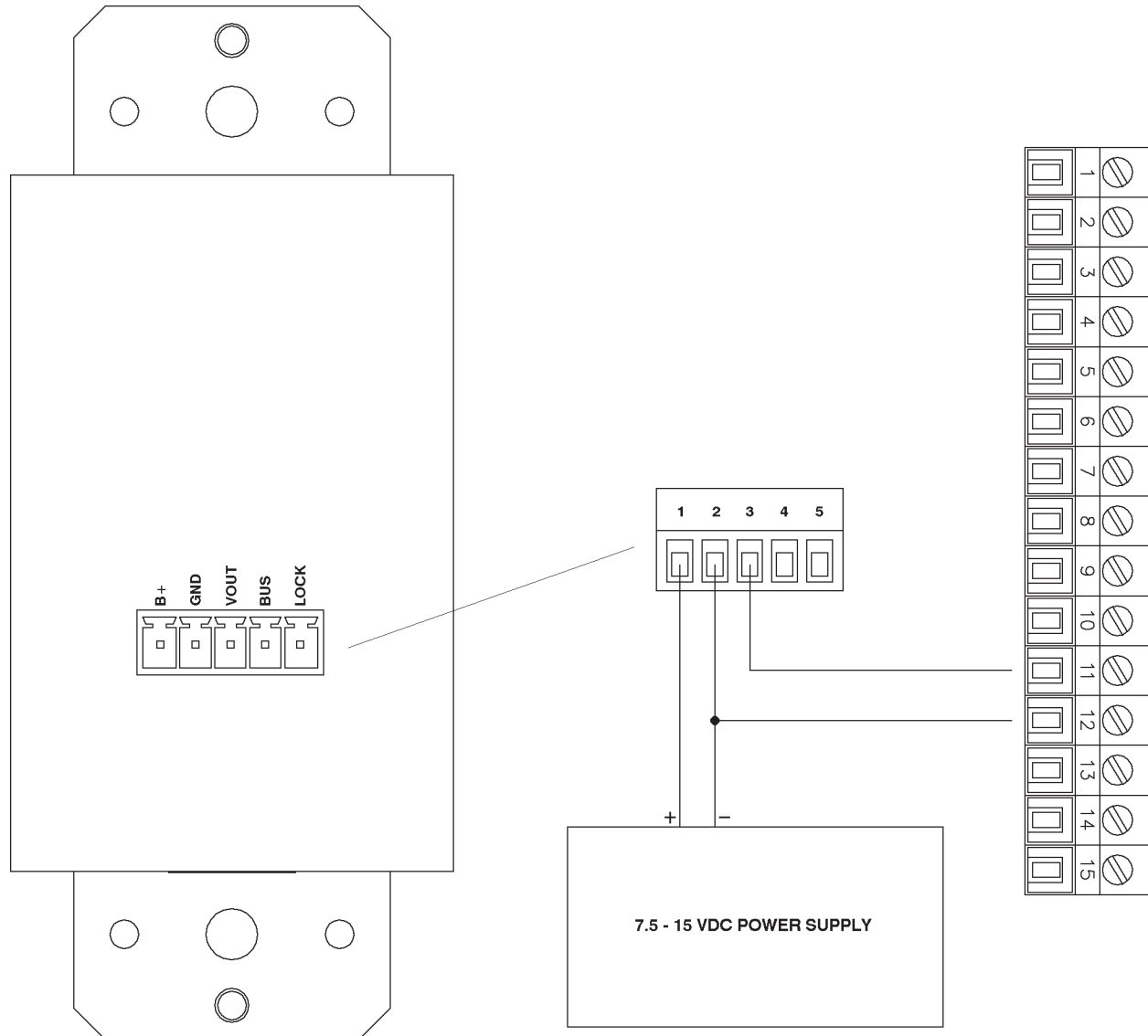


**NOTES**

This is a typical connection to Control Input 1 of the 4400/4800 Automatic Mixer. See 4400/4800 Installation Instructions, Section 4, Group 20, Sub B of the IED Data Manual for connection to other control inputs.

Figure 1 - 412PLC Interconnection Diagram  
 412PLC to 4400/4800 Automatic Mixer

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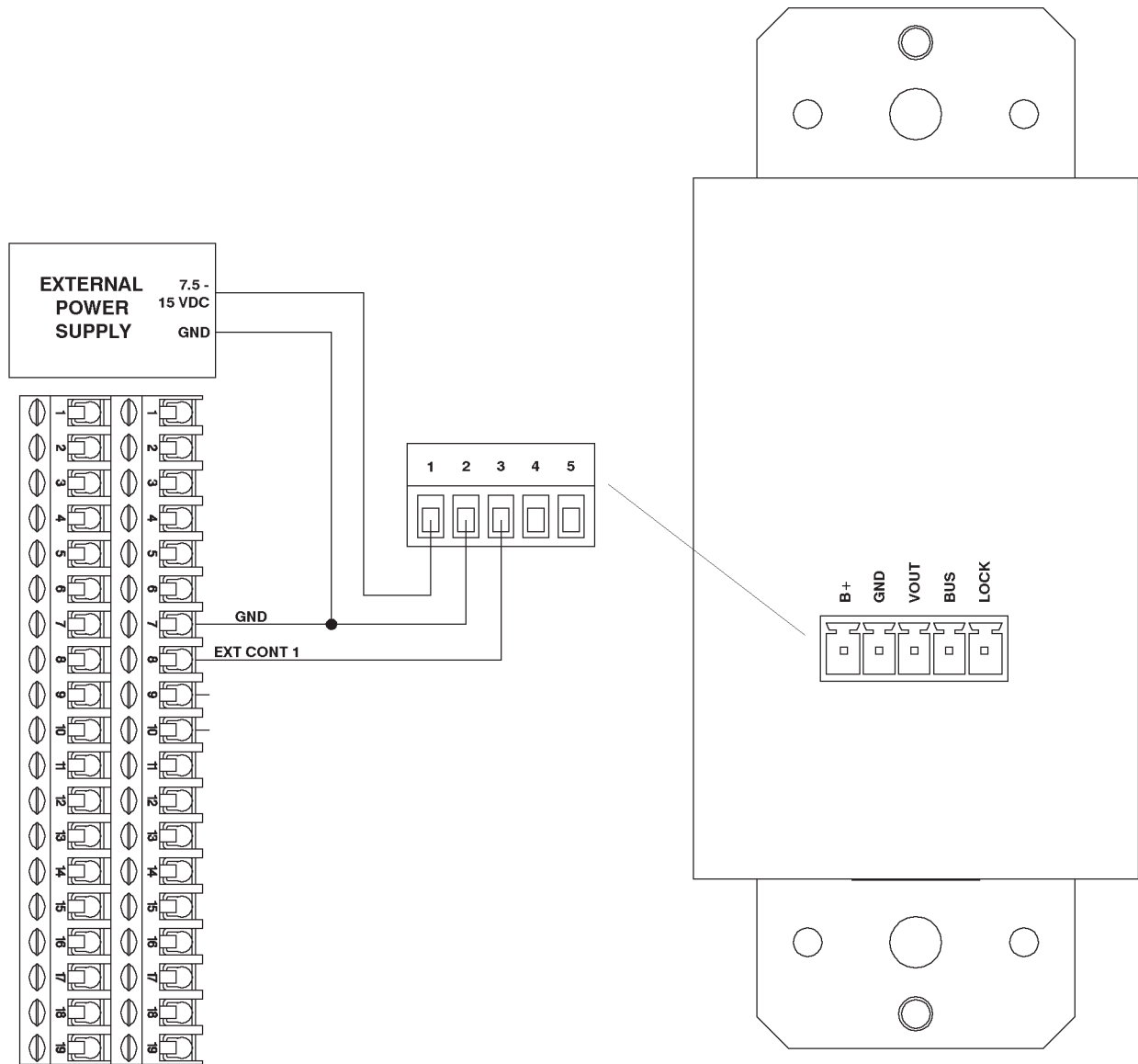


**NOTES**

This is a typical connection to a 5000 Series card with a Model 132 programmable Gain Control Module. The 412PLC can also be used with cards having 110V Voltage Controlled Amplifier Modules. See 5000 Series Installation Instructions for wiring other 5000 Series configurations.

Figure 2 - 412PLC Interconnection Diagram  
412PLC to 5000 Series Audio Processing System  
(5201A shown)



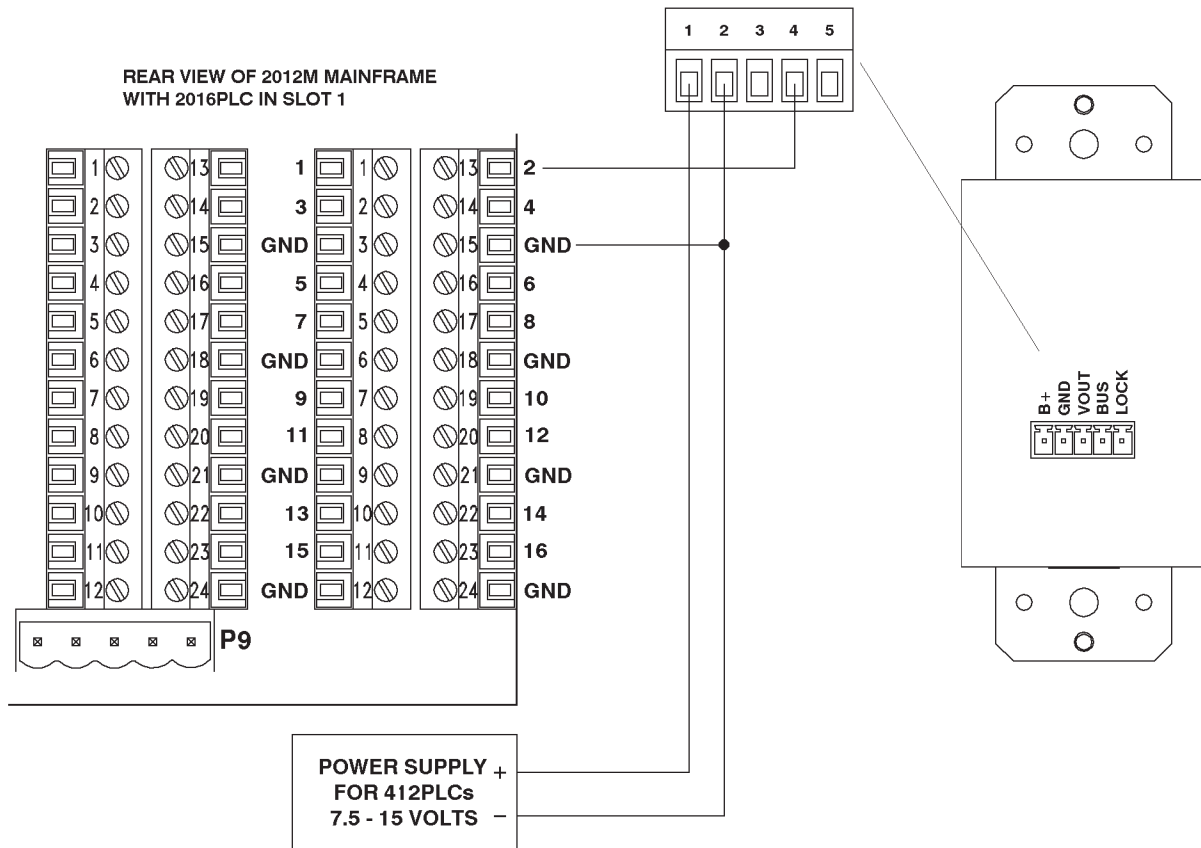


**NOTES**

This is a typical connection to a 4000 Series Automatic Mixer, Control Input 1. See 4000 Series Installation Instructions for wiring other control inputs.

Figure 3 - 412PLC Interconnection Diagram  
 412PLC to 4000 Series Automatic Mixer System

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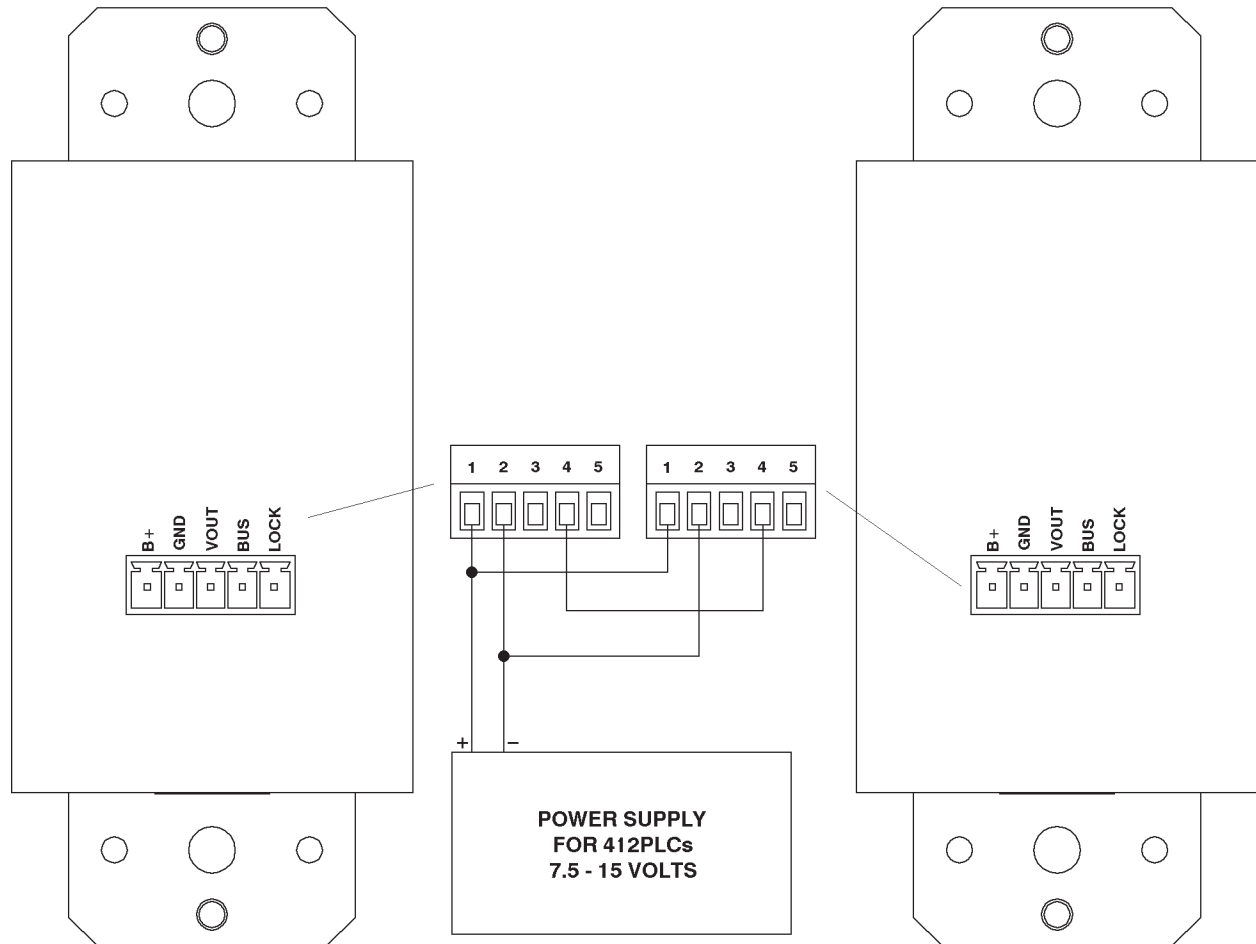
**NOTES**

This diagram is a typical of 412PLC connections to a 2016PLC card in slot 1 of a 2012M Mainframe. The same connections can be made to any 2016PLC card in any card slot of the 2012M Mainframe.

Figure 4 - 412PLC Interconnection Diagram  
412PLC to 2000 Series UDAPS®  
2016PLC PLC Control Card in slot 1





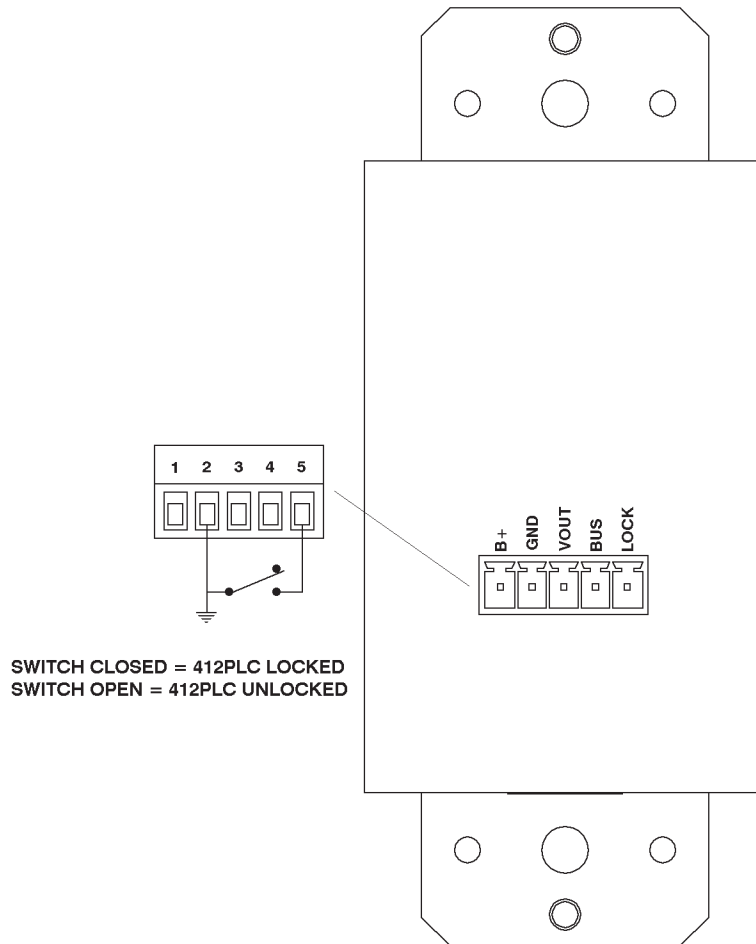


**NOTES**

With the connection shown, the 412PLCs will track. That is, both will be at the same level, and will indicate the same. When one is changed, the other will change identically. In a room combining situation, the bus connection between the 412PLCs can be switched by a relay. when they are connected, the 412PLCs will be ganged and will track. When the the bus connections are separated, the 412PLCs will operate independently.

Figure 6 - 412PLC Interconnection Diagram  
412PLC to 412PLC





**NOTES**

When in the locked position keyboard entries will be ignored, but bus activity will change the level of the 412PLC.

Figure 7 - 412PLC Interconnection Diagram  
Lock 412PLC

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