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Power Controller Instructions

PN: ece-C-13-004, REv 1

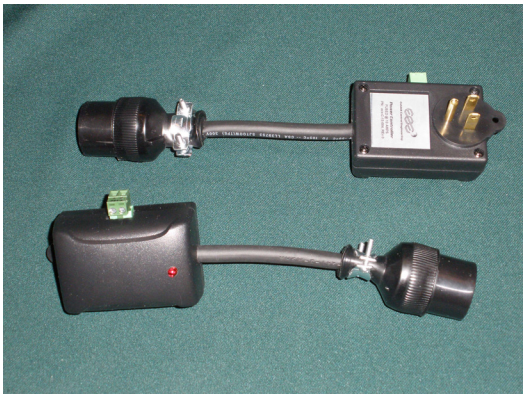

Figure 1

Technical Details:

ECE's power controller can control 10 Amps of AC power to a device. It is fused for 10 Amps and should not be used to control greater loads. It is one of the most compact power controllers on the market making it easy to install between wall mounted displays and the wall. The reduction in size comes at a trade off. Unlike other power controllers with their heavy and large power supplies for the electronics that use dry contact closure for control, this power controller requires a voltage to activate. Control is activated by applying +9 to +15 vdc across the inputs available via a 2-pin Phoenix connector. ***WARNING: If you reverse the polarity of the control power from what is shown on the Phoenix connector, you may cause a catastrophic failure, which will render the unit inoperative.*** If the unit is mounted in a ceiling outlet for which there is concern about it falling out of the receptacle, it does have a screw tab for a more secure fastening. Power on the female Edison plug is indicated when the LED is illuminated.

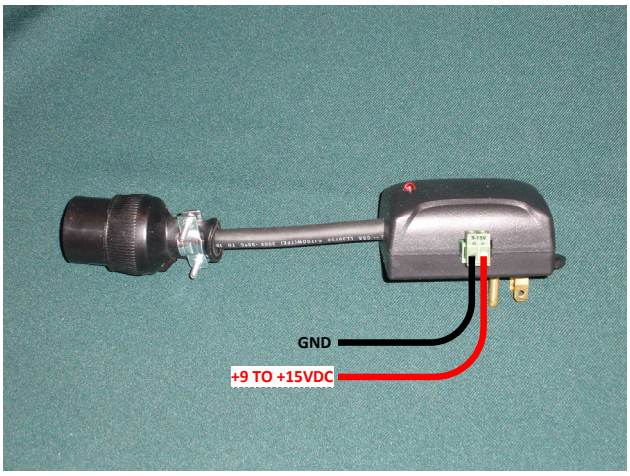

Figure 2

By-the-by, if you want to use this device with a Crestron system or a PLC that has 24vdc power supply, we can provide a version to handle this increased control voltage. We can also provide a version that can take micro IO inputs 5-3.0vdc with just a very small amount of current to activate the power relay. For more information. please contact us.

Typical Application:

Plug the Power Controller into a 120VAC outlet and the device to be controlled into the female Edison plug on the controller. Generally one would use this device to control power to another device using a controlled relay. See Figure 3 as a typical setup. We suggest you remove the Phoenix connector to install the control wires. Then make the control system activate the control relay and check the polarity of the voltage on the Phoenix connector. Once the polarity is confirmed, you can plug the Phoenix connector into the power controller and commence controlling the device.

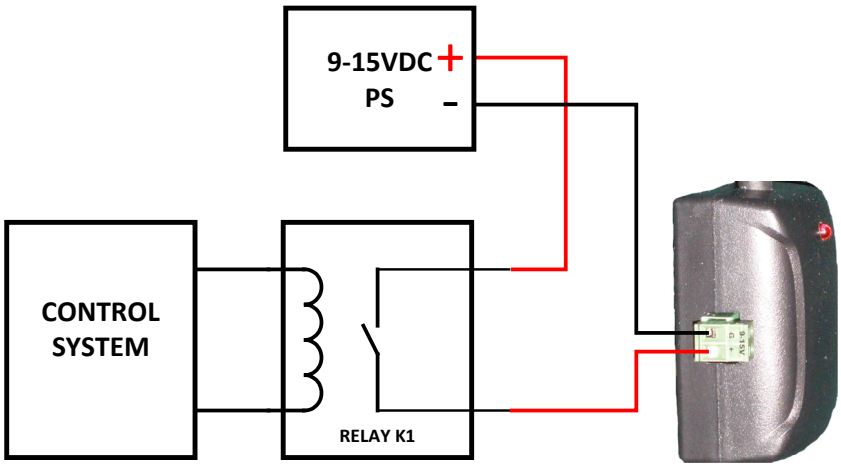

Figure 3

How long a wire run can you have from the power supply/relay combination to the power controller? Basically, distances under 50 feet using 18AWG wire should be fine, no matter what. However, longer runs will require a combination of a larger gage wire and a higher voltage power supply. The bottom line is the voltage measured at the Phoenix connector when trying to power the device needs to be a minimum of 9vdc. If the unit does not seem to be working, check this voltage with a meter and correct as necessary.