



LIGHTING PRODUCTS - PANEL MANUFACTURING - COCKPIT ACCESSORIES

[WWW.SPTPANEL.COM](http://WWW.SPTPANEL.COM)

## **Wiring Single Circuit Dimmer with Pre-fab Harness**

Installing the dimmer with the pre-fab harness is simple and quick. Also, the dimmer has been tested numerous times prior to shipping.

### **POWER INPUT WIRE**

There is one black/white wire. This is for the power input for the dimming circuit. The dimmer can be installed in either a 14V or 28V system.

### **GROUND WIRE**

The black wire is GROUND. Connect this to a solid grounding buss. We discourage using the air frame as a ground, as a ground loop is possible causing noise and static in the intercom system.

### **VARIBLE POWER OUTPUT WIRES**

The red wire is for labeled for the lighting circuit to be dimmed. Connect this to the the actual light source. (Connect to the positive side of light source if using an led light source.)

**WARNING:** The power transistor on the heat sink is +voltage and could short if it comes in contact with a ground! Use caution to insure heat sink is mounted properly and that the transistor is shielded during installation!

Use a 2 amp circuit breaker for the power input for this circuit. This circuit should have no more than a 2 amp current draw. Mount the heat sink in an open area to allow for air circulation.

P.O. Box 1563  
Chesterfield, VA 23822  
Telephone 562-776-9494  
[sales@sptpanel.com](mailto:sales@sptpanel.com)