

# WARNING

Every PWM-500-12 is tested extensively at multiple times during production and again after final assembly. When they are packaged for shipment they are fully operational and should provide years of trouble free operation.

If there are any questions regarding the installation and final connection of the PWM-500-12 please contact us at the one of the following numbers or email us prior to application of power.

1-800-960-1747  
561-714-0883

info@elwoodcontrols.com  
Techsupport@elwoodcontrols.com

If you are calling after normal business hours i.e. weekends, holidays, etc. please leave a message and we will do our best to get back to you in a timely manner.

Elwood Controls, LLC will not warranty any products that are installed or applied improperly.

# RETURNS

Should you feel a need to return an item please call us at one of the following numbers to obtain a return merchandise authorization (RMA)

1-800-960-1747  
561-714-0883

Products returned without an RMA will be returned, unopened, to the sender.

If you have had an issue with a product we will evaluate the reason for the issue and make a determination as to whether or not we will cover it under our limited warranty.

# LIMITED WARRANTY

Elwood Controls, LLC agrees to offer a limited warranty subject to our evaluation of any returned-product. Any defects caused by materials or workmanship will be repaired free of charge or the product will be replaced at our discretion for the time period listed below. Any product damages due to installation errors or the product being used outside of its normal operational parameters will not be covered under this warranty.

## Period of warranty coverage

<b>Electrical Controls, Electronics, Systems</b>	1 year from date of purchase
<b>Bezels, Bezel Assemblies, Enclosures</b>	2 years from date of purchase
<b>Custom Electronics, Controls and Systems</b>	1 year from date of purchase
<b>Software and Firmware</b>	2 years from date of purchase
<b>All other products of systems not listed above</b>	1 year from date of purchase

## DC Dimmer PWM-500-12

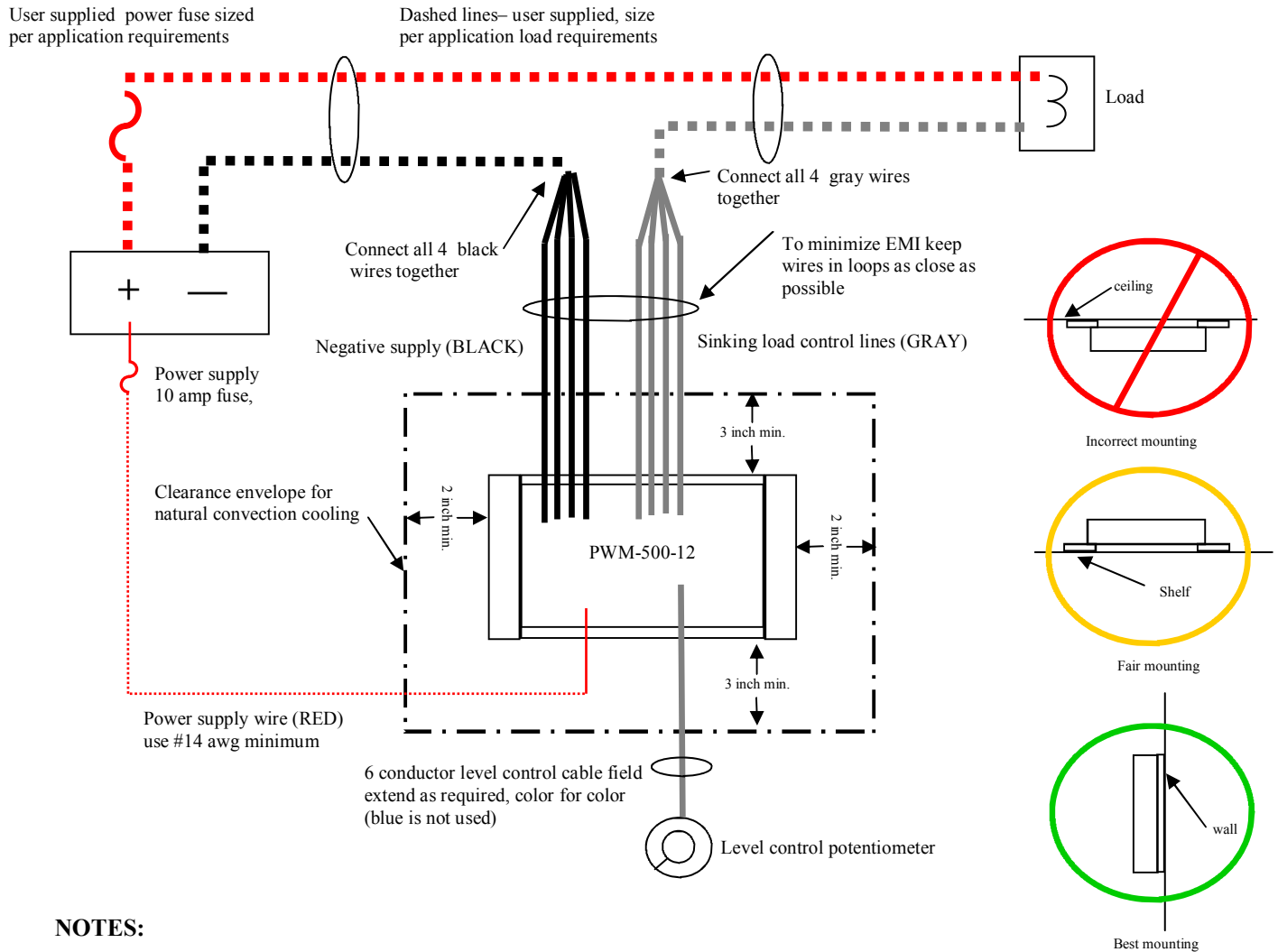
### Functional description

The PWM-500-12 is a 500 watt, 12 volt DC, pulse width modulation, potentiometer controlled, DC dimmer and motor speed control. It can be used for dimming 12 volt halogen, incandescent or LED dimming. Great care was taken during product development to optimize the PWM period to eliminate halogen filament ringing, eliminate LED flicker and minimize switching losses to maximize efficiency.

### Specifications

Supply voltage	12vdc nominal	9vdc min.	20vdc max.
Power	500 watts	42 amps sinking at 12vdc	

### Wiring



### NOTES:

- 1) **IMPORTANT** Prior to final connection of the power source turn level control to minimum or fully counter clockwise.
- 2) The gray and black parallel wires to be equal length respectively.
- 3) Thermal overload will shut the dimmer off at 150 degrees F. Investigate cause of overload. Unit must be power cycled to regain operation.