

# 12v LED PWM Dimmer

## Four-wire LED Lighting Dimmer



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## LOW VOLTAGE PULSE WIDTH MODULATION (PWM) LED LIGHTING DIMMER

This Dimmer is both a toggle On/Off switch, and full range dimming for LED lighting in one rotary control. It is easy to use and ADA compliant with both physical and audible click between the on and off positions.

- For use with 12-volt DC LED lighting systems 8 amps or less.
- Input voltage: 12 volts (9-20v DC range) • Efficiency is greater than 98%.
- Heat sink: max temperature rise under full load is about 40F (22C) above ambient.

Note: Use of this dimmer with electric appliances or fluorescent lighting is not recommended and damage may result. The KR8 should not be used to control electric motors.

### Installation

The LED PWM dimmer must be installed between a 12-volt DC power supply and the first LED light or lighting fixture in the chain. Line voltage of 115v or 230v AC should be connected to a UL listed transformer, which has an output of 12-volts DC.

1. As always, disconnect the power being fed to the wiring you will be connecting to before beginning any installation. Install on a fuse or breaker which is 1 OA or less.
2. The output pair from the dimmer should be connected to either the pigtail connector (which comes with our APR60/30) or 16 gauge wiring which will run to the first fixture of your system. With all low voltage systems it is best not to exceed 80 feet in total distance from the power supply to the last light of your chain. The voltage drop from runs longer than 80 feet may result in the last lights of your chain appearing dimmer than the rest (see "Tips" section for more info).

Do not ground the negative lead to metal frames in between the dimmer and the lighting or aberrant operation may result.