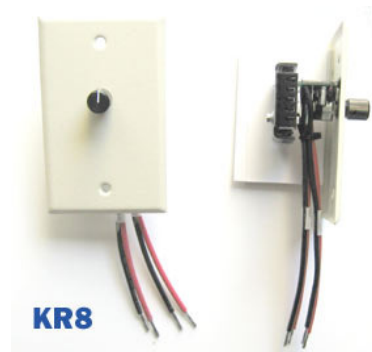


KICK-KR8

Four-wire PWM dimmer for 12-volt LED lighting

Thanks for purchasing our best selling PWM dimmer. Leading LED experts, including the Rensselaer Polytechnic Institute, agree that pulse width modulation (PWM) is the best way to dim LED lighting.



Features and limits

- KR8 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.

Kick Lighting strongly recommends that all electrical work be performed by a licensed and bonded electrician. Our warranty does not cover damage which may result from improper or unsafe installation.

Installation

The KR8 must be installed between a 12-volt DC power supply and the first LED light or lighting fixture in the chain. Line voltage of 110v or 230v AC should be connected to a UL listed transformer, such as Kick-PS30 or Kick-PS100, which has an output of 12-volts DC.

1. As always, disconnect the power being fed to the gangbox or wiring you will be connecting to before beginning any installation. Install on a fuse or breaker which is 10A 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.

3. The 12-volt output of the transformer is then connected to the KR8 dimmer which uses conventional color coding (Red = positive Black = negative). The wiring pair which must be connected to the power source is labeled “To 12V Battery”

4. Test to see that the dimmer works as expected then install the faceplate screws (does not apply to KR8 Mini).

Tips

- Avoid long runs of 12-volt power since voltage drop may result.
- You may consider placing the power supply and dimmer after a standard 110v wall switch. This can avoid a long run of 12-volt wiring and is especially good in semi-public environments like lobbies and restaurants where a visible dimmer switch may be tempting to people who will readjust your lighting levels for you.
- Polarity of installation must be correct or the dimmer will on continuously and knob control will be impossible.
- Use wire ties to maintain a tidy hazard-free wiring environment.
- For best performance, solder clean bare wires together.
- Use a suitably insulated terminal device.
- Tug connected wires to test for integrity of connection.
- When installing on boats or coaches, route wiring away from radios to avoid interference with their audio or use a clam shell filter.

Warranty and Disclaimer

KR8 PWM dimmers are covered by Kick Lighting LLC's 3 year Warranty. Kick's obligation is limited; at its option Kick may replace the dimmer or refund the purchase price as detailed in the Kick Warranty. Information in this booklet is based on extensive testing

and believed with good reason to be true. Kick Lighting LLC shall under no circumstances be liable for any special, indirect, incidental or consequential damages resulting from failure of the product. Kick makes no warranty of fitness for use except as specified herein. Do not use this product as critical components in life support systems or device, aircraft or other hazardous applications.



U.S. Patent 5,237,263



215 West 83rd Street
New York, NY 10024
(800)295-3024

www.KickLighting.com