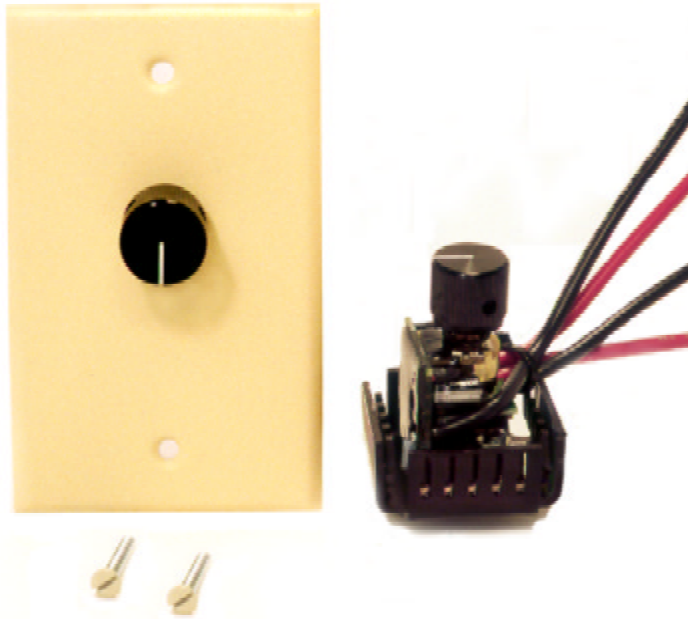


Standard (four-wire) Dimmer

Dims and Switches DC Incandescent and LED Lights



High Performance, extra-robust design

The original and the best! For high performance, compact size, and extreme tolerance to adverse electrical and thermal conditions, this Standard (four-wire) DC Dimmer is hard to beat.

Performance features include full-range brightness control with 98 percent efficiency over the entire dimming range. About 99 percent of battery voltage is delivered to the lamp at full setting for maximum brightness that truly a toggle switch. Double filtering reduces radio interference to nil-to-none.

A high-quality, machined aluminum knob adds distinction and function to the installation: Rotary action is crisp and smooth, while a click-off position reduces current draw to zero when inactive.

Standard is a metal/ivory switch plate for maximum durability, with plastic (ivory/white/dark brown) optionally

available at the same price. Other plate styles and sizes, including stainless steel, and brass can be substituted at nominal cost.

Both 12V or 24V versions are available at the same price. Current capacities of 4, 8, 9.5, and 11 amps are available (see table, reverse side). Installation into a standard 1-gang outlet box only takes about 10 minutes using common hand tools.

With this Standard Dimmer, overall efficiency of halogen lighting can actually be comparable with fluorescent, while superior light quality and versatility are delivered. Rendition of interior colors is true and natural at high setting, warm and inviting at low setting. You can even set illumination level extra low for use as a night light. Expensive bulbs last far longer because on/off surge is eliminated. LED devices can also be powered.

Features

- Full range brightness control plus click-off
- Amazingly efficient
- Compact size
- Nil radio interference
- Easy outlet box installation
- 12V and 24V versions at same price

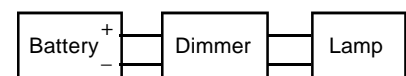
Applications

- Central area lighting
- Task lighting
- Stairwells and entrances
- Night lighting



Protected under US Patent 5,237,263

Wiring Diagram



Technical Specifications

Mode of Operation

Continuously variable pulse width modulation

Supply Voltage

12V Version: 8 to 20 vdc working, up to 32 vdc momentary. If Xantrex-type inverter causes flicker while charging battery, install noise filter such as Radio Shack Part# 270-051 or 270-055 on input.

24V Version: 18 to 30 vdc working, up to 40 vdc momentary.

Fuse or breaker in electrical box

Output Voltage Range

From zero vdc to essentially supply voltage

Continuous Output Current

Full rated current up to 105 F (40 C) ambient, 75% of rated current up to 115 F (46 C)

Ambient Temperature Range

- 40 F (- 40 C) to 115 F (46 C)
(with restrictions noted)

DC-DC Conversion Efficiency

About 98% at full rated load

Load Types

Optimized for resistive loads including incandescent lights and heating elements. Drives many LED devices.

Reverse Polarity Protection

Input leads can be reverse connected without damage. Fuse link on back of circuit board opens if power is reverse connected across negative leads

Transient Protection

Double resistive/capacitive filtering, zener diode clamping

Size

4A unit is about 1.2" (29 mm) square. Other units are about 1.8" (47 mm) square

Weight

From 3 to about 5 oz (84 to 140 gm) depending on options

Line Regulation

Directly proportional to supply voltage

Load Regulation

Generally less than 3% from minimum load to maximum load at any setting

Voltage Drift

Nil with steady input voltage

Power Dissipation of Drive Circuitry

Less than 0.038W. No-load current draw is about 1mA. Nil current used in click-off position

Service Life of on/off Switch

About 50,000 cycles

Heat Sink

Heat sink is electrically isolated from voltage and acts as a circuit enclosure. Temperature rise under maximum load is about 40 F (22 C) above ambient

Accessories Included

Color coordinated switch plate mounting screws and detailed installation instructions.

Safety Construction

UL, UL/C Listed to U.S. and Canadian safety standards. Look for the UL Mark

Warranty and Disclaimer:

Although Manufacturer warrants the goods, so far as the same are of its manufacturer, against defects in materials and workmanship under normal use and service for which they were designed for a period of 90 days after invoice date, Manufacturer's obligation under this warranty are limited, at its option, to the replacement of the part or parts determined to be defective or to the refund of the purchase price.

Claims made in this data sheet are based on extensive testing and are believed to be true. Manufacturer shall under no circumstances be liable for any special, indirect, incidental, or consequential damages owing to failure of the goods. Manufacturer makes no warranty of fitness for a particular purpose or merchantability or any other warranty, oral or written, expressed or implied, except as specifically set forth herein. Do not use ZANE products as critical components in life support devices or systems, aircraft, or other hazardous applications.

Any goods returned under warranty must be returned freight prepaid

Standard (four-wire) DC Dimmer for Outlet Box Installation UL LISTED Confined Space

Part #	UPC Number	Input Voltage	Maximum Current
ADM-34L-12V	04600	12V	4A
ADM-34L-24V	04700	24V	4A
ADM-44L-12V	04800	12V	8A
ADM-44L-24V	04900	24V	8A
ADM-48L-12V	05000	12V	9.5A
ADM-48L-24V	05100	24V	9.5A
ADM-54L-12V	05200	12V	11A
ADM-54L-24V	05300	24V	11A