



Austin Led Consultants

DMX and Led power over ethernet

ATX LED Consultants Inc
815-A Brazos #326
Austin Tx, 78701
512 377 6052
<http://atx-led.com>

AL-DALI-WS-DR2

Dimmer / Driver with DALI™

DC Constant Current, 3-Way

48 watt dual channel



Product Description - AL-DR2 wall switch

This switch operates just like any standard residential light switch – however it takes 44-56v DC instead of 120VAC, and directly drives up to 20 LEDs. This Decora style switch in a standard residential style outline fits into any home, looks like any switch yet requires no licensed electrician for installation. No complicated controller is required.

For 3-way operation – a simple 2 wire link with AWG24 or better allows 2, 3, or an unlimited numbers of switches to control one set of LED's. Any single pole switch found at Home Depot can be used to add a remote switch, or a dual pole switch for 3 or an unlimited number of switch points.

Stand alone it operates as a simple switch for 2 strings of LED's. Jumper selections for 300, 400, 600 or 700 mA LEDs with up to 45 watts per channel – two channels are provided for 90 watts total. For example, 20 3 Watt LEDs can be connected in series and parallel to this switch / dimmer device. Use AWG 16 or 18 to bring 48v (or 24 to 56 volts) from a central power supply over to the switches, then use AWG 18 to connect to your LEDs – no tools are required to wire this device.

A proven rocker switch and brightness slider leverages mass production of 120 VAC switches, for a low voltage application – any casual user requires no training, no App to use this switch. Perfect, flicker free dimming from 0 to 100%. No network setup is required. Temperature controlled switching assures excellent dimming.

To enable Home / Business automation – the AL-DR2 includes an opto isolated serial bidirectional port for remote and voice control. Use a DALI home automation hub to connect to Alexa voice control. The DALI protocol is supported, with automatic addressing. Use low cost CAT-3 wire up to 1000 ft to implement remote management. Power and DALI are duplicated allowing easy installation.

Specifications

Power source and load	KF246 type spring loaded connectors (2) for AWG 16-20 wire
LED constant current output	KF246 (2) 300 mA base current, jumper options for 400, 600 or 700 mA per channel
Input voltage range (must be higher than attached LED)	12v to 57 volts
Standby power consumption	50 milliwatts
Conversion efficiency	95%
Protection	Reverse protection and static protection
Operating Temperature	0°C ~ 50°C
Size	115 x 46 x 50 mm
Dimming	1 to 100 %, log scale, Current control
FCC and interference	All outputs are RF filtered for minimal interference
Max output voltage	Input minus 2 volts
Min output voltage	6 volts
Hot Swap	Yes – can unplug and connect LEDs with power applied.
Microprocessor	STM32L0 Customization is available
Other Options	Please see our DMX and PoE products
DALI interface	Random 16 bit address at startup, assignable to 64 short addresses Opto Coupled
Individual, group and scene support	AWG 18-24 gauge wire spring fit

