

Wall Mounted, Low Power, 24 Channel, DMX512 Dimmer

model: DMX24DIM-JBOX

technical data sheet



The DMX24DIM-JBOX is a twenty-four output dimmer designed for high efficacy loads, low idle power, and minimal losses. Typical loads include Christmas light strings (LED and incandescent), and low power lamps such as LED, neon, compact fluorescent, electronic and magnetic low voltage, halogen and incandescent. Typical applications include Christmas tree lighting, cue lights, signs, marquees, and practicals.

The dimmer is a wall mounted unit. All connections are made by terminal blocks for easy contractor installation. The NEMA1 electrical enclosure is provided with standard conduit knockouts on four surfaces.

The DMX24DIM-JBOX is ETL Listed to the UL508 standard.

If you would like assistance in your application, please give us a call. We like to talk with our customers.

SPECIFICATIONS: All specifications meet or exceed DMX512 requirements.

Input circuit: Protected EIA-485 receiver (LT1785).

Input protection: Undamaged by up to 60 Volts continuous, 15KV transients.

Input signal: 0.2 volts minimum, 12 volts maximum, DMX512, DMX512/1990, or DMX512-A.

Input connector: Screw down terminal block.

Termination: None provided. Termination needs to be made at the end of every DMX run.

Power input: 120 VAC 60 Hz 20 Amps at full load. Actual current draw is 0.05A plus connected load.

Power input connector: 3 position terminal block (Line, Neutral, Ground) suitable for up to #12 AWG wire.

Idle power: Less than 1 Watt.

Power output: 120 VAC 60 Hz 0.83 Amps (100W) maximum per output.

Minimum load: No minimum load requirement.

Output protection: None. Overloading of outputs can result in output failure.

Output connectors: 2 position terminal block (Line, Neutral) on each output suitable for up to #12 AWG wire.

Doug Fleenor Design, Inc.

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DOUG FLEENOR DESIGN

SPECIFICATIONS: (Continued)

Dimming circuit:	Digitally fired, phase controlled 16 Amp snubberless triac (Alternistor) with high dv/dt driver. Triacs are screwdriver replaceable. One spare triac provided. A leakage control circuit on each output prevents ghosting of small loads.
Rise time:	2 uS (10% to 90% at 90 degree firing angle) at rated load.
Dimming curve:	Square law. Visually appealing on LED lamps (120V), halogen lamps, magnetic low-voltage (MLV) and electronic low-voltage (ELV).
Non-dim curve:	Optional factory programmed non-dims turn on at 60%, off at 40% (or other user specified points). Outputs switch at zero crossing.
DMX footprint:	Twenty-four consecutive DMX slots beginning with the selected DMX starting address.
DMX starting address:	Three digit thumbwheel switch. Address changes are immediate (no power cycling required).
Local control:	"Address switch" setting of 601 turns on output 1, 602 turns on output 2, etc. A setting of 699 turns on all outputs.
Chase mode:	Factory programmed chase sequences are available. Please call.
Status indicators:	Red POWER indicator. Green MIMIC 1 indicator mimics the intensity of output 1 (useful in troubleshooting). Green SIGNAL indicator illuminates when DMX512 is present; flashes when local control is active (address switch settings of 601 thru 624).
Cooling:	Convection cooling, no fan required.
Isolation:	DMX512 input is optically isolated from AC power circuits to 600 Volts.
Color:	Gray
Safety listing:	ETL Listed to UL 508
Size and weight:	18"H x 4"D x 12"W, 10 pounds

Limited Manufacturer's Warranty

Products manufactured by Doug Fleenor Design (DFD) carry a five-year parts and labor warranty against manufacturing defects. It is the customer's responsibility to return the product to DFD at the customer's expense. If covered under warranty, DFD will repair the unit and pay for return ground shipping. If a trip is necessary to the customer's site to solve a problem, the expenses of the trip must be paid by the customer.

This warranty covers manufacturing defects. It does not cover damage due to abuse, misuse, negligence, accident, alteration, or repair by other than by Doug Fleenor Design.

Most non-warranty repairs are made for a fixed \$50.00 fee, plus shipping.

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