

Low Power, 8 Channel, DMX512 Dimmer

model: DMX8DIM
technical data sheet



The DMX8DIM is an eight output 'green' dimmer designed for high efficacy loads, low idle power, and minimal losses. Typical loads include LED lamps, Neon, Compact Fluorescent, and low power halogen.

The dimmer electronics are housed in a 12x12x4 inch NEMA Type 1 enclosure and are easily removable so the enclosure can be installed and rough wired without the electronics in place. Then, upon completion of dry wall, the electronics can be reinstalled using only four screws. A protective bag is included for storing the electronics during installation. Wiring is by compression type screw terminal blocks. Rated at 250 Watts per output, the dimmer has self-resetting overload protection and is powered by a single 20A branch circuit. Features include dim/non-dim per output, local control for load testing, a troubleshooting LED, and an optically isolated DMX input. DMX512-A compliant, ETL listed to UL508.

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). Transient protected to 15 KV, Continuous to 60 V.
Input signal:	0.2 volts minimum, 12 volts maximum, DMX512, DMX512/1990, or DMX512-A.
Signal Connectors:	Phoenix Contact Combi-Con Pluggable terminal blocks. Two provided: In and Through.
Termination:	Removable 120 Ohm termination provided on feed through.
Power Input:	120 VAC 60 Hz 16 Amps at full load (Uses 20 Amp branch circuit at 80% capacity). Actual current draw is connected load plus 50 mA (max).
Idle Power:	Less than 1 Watt.
Input Power Connector:	Three position screw terminal block accepts up to 12 AWG solid or stranded wire (Line, Neutral, Ground).
Power Output:	120 VAC 60 Hz 250 Watts per output.
Output Protection:	2 Amp self-resetting over current device on output, 100 Ohm PTC thermistor on driver.
Output Connectors:	One three position screw terminal block per output accepts up to 12 AWG solid or stranded wire (Line, Neutral, Ground).
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 moderate loads. This dimmer is forward phase firing (aka: leading edge firing).

SPECIFICATIONS: (Continued)

Rise Time:	12 uS (10% to 90% at 90 degree firing angle) at rated load.
Dimming Curve:	Square law.
Non-dim Curve:	Outputs set to non-dim turn on and off at 1%. Outputs switch at zero crossing.
DMX Footprint:	Eight consecutive DMX slots beginning with the selected DMX Starting Address.
DMX Starting Address:	Nine position internal DIP switch. Must be set at time of install. Not user accessible.
Non Dim Switch:	Nine position internal DIP switch. One switch per output plus 'local'. Not user accessible.
Local Control Switch:	When local switch is ON, Non-dim switches function as on/off switches for load testing.
Chase Mode:	Factory programmable chase sequence (default is 8-step chase 1/8 seconds per step).
Status Indicators:	One multi-function LED: Blinking Red Power on, no input signal Solid Red Local control mode enabled Blinking Green DMX input signal present Solid Green DMX input present, output 1 above 0
Cooling:	Maintenance free convection with front panel ventilation. No fan.
Isolation:	Double isolated: DMX512 input is isolated from control electronics to 1500 Volts. Control electronics are isolated from AC power circuits to 600 Volts.
Color:	Gray rear and sides, Green cover.
Knock-outs:	Ten provided (five on each side). Each knock-out accepts two fitting sizes. There are two each of 0.75" / 1.00" and 0.50" / 0.75" and one of 1.00" / 1.25"
Safety listing:	ETL listed to UL 508
Size and Weight:	12.1" x 12.1" x 4.4" 10 Pounds
Warranty:	Five years parts and labor. Dimmer electronics must be returned to Doug Fleenor Design (DFD) for warranty repair (enclosure can remain in place). Shipping to DFD is to be paid by the customer. Return ground freight is paid by DFD. Costs to remove and re-install the dimmer electronics are not covered. Warranty covers manufacturing defects. Damages caused by improper installation or misuse are not covered.

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