

## 12 channel DMX to analog interface

model: DMX12ANL-DIN, DMX12ANL-DIN-JBOX, DMX12ANL-DIN-JBOX-PS  
technical data sheet



The DMX12ANL-DIN is a 12 channel DMX512 to analog 0-10V interface. It uses pluggable terminal blocks for the DMX512 in and thru connections, analog outputs, and DC power input. The device mounts on standard 35mm “top hat” DIN rail. It is powered by 12 to 24VDC. The DMX12ANL-DIN can be pre-mounted in a NEMA1 electrical enclosure (model DMX12ANL-DIN-JBOX). If a power supply is needed in the enclosure, use model DMX12ANL-DIN-JBOX-PS.

Each analog output is capable of sourcing or sinking up to 15mA. No user adjustments or modifications are needed to select sourcing or sinking modes. Each output channel has a dedicated common terminal to ease field wiring. The DMX512 input is optically isolated from the analog outputs. The analog outputs are not isolated from each other. 0-12 volt output is available on special order. Output isolation diodes can be installed for theatrical dimming applications (ANSI E1.3 current sourcing).

Indicators are provided for POWER, SIGNAL (DMX512), and MIMIC 1. The latter mimics the level of the first analog output. An ERROR LED illuminates if an outputs level cannot be maintained at the proper voltage. These are useful diagnostic indicators to verify addressing and operation.

**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.

Isolation: DMX512 input is optically isolated to 600 Volts.

Input/thru connector: 3 position pluggable terminal blocks.

Termination: None. Unused pass through connections must be externally terminated.

Power input: DMX12ANL-DIN, DMX12ANL-DIN-JBOX: 12-24VDC, 0.25 Amps.  
DMX12ANL-DIN-JBOX-PS: 100-240VAC 50/60 Hz, 0.8-0.4 Amps.

Output connectors: Two 12 position pluggable terminal blocks. Each terminal block has 6 outputs and 6 commons.

DMX footprint: Twelve 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).

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## **SPECIFICATIONS:** (Continued)

Local control:	Address switch setting of 601 turns on output 1, 602 turns on output 2, etc. Switch setting of 697 turns on all outputs if any DMX level is above zero. Switch setting of 698 turns on all outputs if DMX is present. Switch setting of 699 turns on all outputs.
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 and 697 thru 699). Yellow ERROR indicator illuminates if any output channel voltage differs from the target voltage for that channel.
Cooling:	Convection cooling, no fan required.
Color:	DMX12ANL-DIN: Black DIN mounting tray. Green PCB. DMX12ANL-DIN-JBOX: Grey NEMA1 electrical enclosure with knockouts on 2 surfaces. DMX12ANL-DIN-JBOX-PS: Grey NEMA1 electrical enclosure with knockouts on 2 surfaces.
Size and weight:	DMX12ANL-DIN: 8.1" high x 5.0" wide x 2.2" deep, 1 pound. DMX12ANL-DIN-JBOX: 12" high x 12" wide x 4" deep, 10 pounds. DMX12ANL-DIN-JBOX-PS: 12" high x 12" wide x 4" deep, 11 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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