

DOUG FLEENOR DESIGN

Single Channel DMX512 Controlled Relay Pack

model: DMX1REL20A

technical data sheet



Doug Fleenor Design makes a series of Relay Packs that are controlled by DMX512. This single channel unit is designed to switch up to a 20 amp line voltage load. It is built with a 30 amp relay for robust performance. The unit is provided with two 18" 12/3 SJ pigtails for line

in and switched line out. Supplied with 15 amp parallel blade connectors as standard, the unit may be wired with higher rating connectors by special order or may be rewired by the customer.

Doug Fleenor Design Relay Packs use dry contact air-gap relays. These relays have advantages and disadvantages over the solid state relays found in dimmer packs. Solid state relays can be switched on and off rapidly with no wear, but tend to leak current even when in the *off* position. Air-gap relays do not leak current, but due to their mechanical design have a finite life span. Doug Fleenor Design Relay Packs should be used where a true *off* condition is required (no voltage, no current). They should not be used in applications where they will be turned on and off rapidly (for example in chase lights). Ideal applications include fog machines, power to moving light fixtures, motorized disco effects, strobe lights, fans, etc.

SPECIFICATIONS: Input specifications meet or exceed DMX512 requirements.

Input signal: 250 Kilobaud, 0.2 volts minimum, 12 volts maximum.

Input circuit: EIA-485 receiver with two 100 ohm PTC self resetting fuses, four low capacitance transient suppression diodes.

Input connector: Gold plated 5 pin male (Neutrik D-1 series).

Input pass through: Gold plated 5 pin female (Neutrik D-1 series). All five pins are passed through.

Power input: 100 to 240 Volts, 50/60 hertz, 4 watts (plus load).

Power input plug: NEMA type 5-15P dead front plug standard, others optional.

Power output: Input power is switched to output. (Hot side only)

Power output socket: NEMA type 5-15R dead front receptacle standard, others optional.

Output rating: 15 amps with standard connectors, 20 amps with optional connectors.

Output device: Omron G8P. Mechanical life: 10,000,000 operations minimum.
Electrical life: 250,000 operations minimum at 5 Amps.
125,000 operations minimum at 20 Amps.

Color: Top, bottom and sides: Silver hammer tone.
Front and back: Black.

Size and weight: 1.7"H x 6.5"D x 6.5"W, 2.7 pounds (19" rack adapter available).

Doug Fleenor Design, Inc.

396 Corbett Canyon Road
Arroyo Grande, CA 93420
(805) 481-9599 voice and FAX
(888) 4-DMX512 toll free (888) 436-9512
web site: <http://www.dfd.com>
e-mail: info@dfd.com



DOUG FLEENOR DESIGN

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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