

# DOUG FLEENOR DESIGN

## Six Channel DMX512 Controlled Relay Pack

model: DMX6REL15A, DMX6REL30A  
technical data sheet

Doug Fleenor Design makes a series of Relay Packs that are controlled by DMX512. These six channel units are designed to switch up to 15 amp line voltage loads and are built with 30 amp relays for robust performance. Line voltage input is on an 18" 12/3 SJ pigtail(s) fitted with 15 amp parallel blade plug(s). Model DMX6REL15A has one line in pigtail. Model DMX6REL30A has two line in pigtails (one for relays 1-3, one for relays 4-6). Switched line outputs are on chassis mounted 15 amp parallel blade receptacles.

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 generate heat and leak current even when in the *off* position. Air-gap relays do not require cooling and do not leak current, but due to their mechanical design have a finite life span. Our 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 such as in chase lights. Ideal applications include fog machines, power to moving light fixtures, motorized disco effects, strobe lights, fans, etc.

**SPECIFICATIONS:** Signal input specifications meet or exceed DMX512 requirements.

Certification: ETL Listed to the UL 508 standard.

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

Input circuit: ESD protected EIA-485 transceiver (LT1785).

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: 120 VAC, 50/60 hertz, 2 watts (plus load).

Power input plug: NEMA type 5-15P dead front plug.

Power input rating: 15 amps per line input pigtail.

Power output: Input power is switched to output.

Power output socket: Nylon NEMA type 5-15R receptacle.

Power output rating: 15 amps per output. Maximum total load is limited by input rating.

Certification: ETL Listed to the UL 508 standard.

Output device: Omron G8PT. Mechanical life: 10,000,000 operations minimum.  
Electrical life: 300,000 operations minimum at 5 Amps.  
125,000 operations minimum at 15 Amps.

Environmental: 0-40° C (32-104° F), 10-90% humidity, non-condensing

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

Size and weight: 1.7"H × 6.5"D × 16.5"W, 5 pounds (optional 19" rack adapter # RK16-1).

# 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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