

DOUG FLEENOR DESIGN

Six Channel DMX512 Controlled Relay Pack

model: DMX6REL15A-JBOX, DMX6REL30A-JBOX
technical data sheet



The Six Channel DMX512 Controlled Relay Pack receives DMX512 and uses the levels to open or close dry contact relays. A relay is closed when its level exceeds 60%. The relay is opened when the level falls below 40%. The unit is wired such that when the relay is closed, the line voltage on the AC input is switched onto the AC output (only the *hot* side is switched). The DMX6REL15A-JBOX, designed to switch line voltage loads up to 15 amps, uses 30 amp relays. The DMX6REL30A-JBOX is the same as the DMX6REL15A-JBOX, but uses two 120 VAC inputs, one for relays 1 through 3, one for relays 4 through 6. Custom options with different trip points, inverted action, momentary action, and DMX loss behavior can be configured in the field. Contact DFD for details. There are no user-serviceable parts inside the DMX6REL15A-JBOX or DMX6REL30A-JBOX. Refer servicing to qualified personnel. Turn off power before removing cover. Do not operate with the cover removed.

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).

Control wiring: Three position barrier terminal block, .374 double row with binding screws.

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

Power wiring: Twelve position terminal block 10mm Euro Strip UL 30a-450 Volt M3 Screw

Power input rating: 15 amps per line.

Power output: Input power is switched to output.

Power output rating: DMX6REL15A: up to 15 amps per channel, 15 amps total connected load.
DMX6REL30A: up to 15 amps per channel, 15 amps total connected load on relays 1-3, and up to 15 amps per channel, 15 amps total connected load on relays 4-6.

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. Indoor use only.

Size and weight: 18"H × 4"D × 12"W, 10 pounds.

Color: Gray.

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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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