

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 use 30 amp relays. Line voltage input is on an 18" 12/3 SJ pigtail(s) fitted with 15 amp parallel blade plug(s) (20 amp

connectors optional). Model DMX6REL15A has one line in pigtail. Model DMX6REL30A has two line in pigtails (one for channels 1-3, one for channels 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. 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 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.

Input signal:	250 Kilobaud, 0.2 volts minimum, 12 volts maximum.
Input circuit:	EIA-485 receiver protected against 120 VAC line cross and transients to 5 KV by two 100 ohm PTC self resetting fuses and 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:	120 volts, 50/60 hertz, 2 watts (plus load).
Power input plug:	NEMA type 5-15P dead front plug standard, others optional.
Power input rating:	15 amps per line input pigtail with standard plug. 20 amps per line input pigtail with optional plug.
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.
Output device:	Aromat JTN. Mechanical life: 10,000,000 operations minimum. Electrical life: 300,000 operations minimum at 5 Amps. 125,000 operations minimum at 15 Amps.
Color:	Top, bottom and sides: Silver hammer tone. Front and back: Black.
Size and weight:	6.5" deep, 1.7" high, 16" wide, 5 pounds (optional 19" rack adapter # RK16-1).
Warranty:	Five years on defects in manufacturing. Output relays are not covered.



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