

Two Pole DMX512 Controlled Relay Pack

model: DMX1REL20A-2POLE
technical data sheet



The DMX1REL20A-2POLE controls two output legs using a single channel of DMX512. The relays can switch up to a 20 amp line voltage load and are built with a 30 amp relay for robust performance. The output is suitable for 208-240VAC with both the hot legs being switched. The

unit is provided with two 18" 12/3 SJ pigtails for line in and switched line out. Supplied with 20 amp twist lock connectors (L6-20) as standard, the unit may be wired with different 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, operating at 208VAC or 240VAC.

SPECIFICATIONS: 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:	208 to 240 Volts, 50/60 hertz, 6 watts (plus load).	
Power input plug:	NEMA type L6-20, others optional.	
Power output:	Input power is switched to output. (Both legs switched)	
Power output socket:	NEMA type L6-20 standard, others optional.	
Output rating:	20 amps with L6-20 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 × 6.5"D × 6.5"W, 2.7 pounds (19" rack adapter available).	

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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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