

USER GUIDE



DM Engineering Solid State Relay Pack

Version 2.1

DM Engineering

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Overview:

The Solid State Relay Pack is a self contained AC line switching device designed to operate "ON AIR" or "RECORDING" studio signs, or other incandescent lamps, spots or floods using a normally open contact closure and/or a low DC input voltage to control the output. The DC control input is not polarity sensitive.

The Solid State Relay Pack has the following features:

- Control input voltage range of 5-30 VDC @ 17ma (maximum) with polarity guard. (Input wires may be connected without regard to polarity and may be almost any length), and/or:
- a Normally Open contact closure
- **Internally fused** output with capabilities up to 5 amps @ 125 VAC, and supplied with NEMA standard "U" ground 3 pin outlet connector. (Fuse - 5A Fast Blo, 5x20MM)
- 6 ft. input AC cord with NEMA standard "U" ground 3 pin plug.
- Eurostyle 4 station DC and N.O. contact input connector.
- Zero-crossing technology is employed to eliminate noise

Operation:

Application of a DC input voltage and/or closure of a normally open contact turns on the Solid State Relay and removal of the input voltage or opening of the contact closure turns off the Solid State Relay.

Installation:

Installation of the Solid State Relay Pack is simple.

1. Connect the DC and/or N.O. contact input wires to the 4 station connector as indicated on the unit. Polarity of the DC input is not a factor. (See figure 1 below)
2. Connect the input line cord to any available 105-125 VAC receptacle.
3. Connect the load to the AC receptacle on the front of the Solid State Relay Pack. (<5.0Amps)



Figure 1

Warranty Information:

The DM Engineering Solid State Relay Pack is warranted for a period of one year from the date of purchase. This warranty covers materials and workmanship only. Any misapplication, physical or electrical damage from outside sources or by the customer is not covered. The customer must pay shipping costs to the factory, and DME will pay shipping costs to return the warranted equipment to the customer. Any priority shipping costs are to be the responsibility of the customer as ground service is standard. Please contact the factory for an RMA number prior to any returns. Items returned without an RMA may be sent back to the customer unopened.

Technical Support

If you have questions, experience difficulties with the product or require further information please contact DME at: 805-987-7881, toll free 800-249-0487, or E-mail technical support at: info@dmengineering.com, or visit www.DMEngineering.com for the latest User Guide.

Specifications:

Case dimensions: 6" wide X 5" deep X 1.5" high

Case material and color: ABS plastic, bone grey, 94V0

AC input & output connection method: NEMA "U" ground 3 pin plug and receptacle.

DC and N.O contact input connection method: Eurostyle 4 station screw terminal connector

DC input requirement: 5-30VDC @ 17ma maximum.

Solid State Relay AC input operating voltage and current: 105-125 VAC, .06-5 A., 47-63Hz.

DC Input to output isolation: 2500 Vrms, 500VDC

Zero-crossing technology employed to eliminate noise

Components UL recognized

Power Cord Length: approx. 6 ft. total

Mounting: Desktop or any surface that the customer desires

Operating temperature and humidity: 32 to 120F, 0 to 95% non-condensing

Shipping Weight: 2 lbs. (approximate)