

Overview

The RDM-6EM (FG606-80) is a 6 channel switching energy management module. It is designed for use with the RDA series of enclosures in an AMX Lighting system.

The RDM-6EM is designed with the most advanced latching energy management relays to support heavy duty commercial applications, building automation, and loadside management. Equipped with on-board module microprocessors, it supports relay control and sequencing. Features include:

- Six 20 A relays - non-phase dependent
- On-board module microprocessors - supports relay control and sequencing
Installs in one enclosure space
- Incandescent, transformer, low voltage, general purpose load types
- User selectable delays in sequencing mode to minimize inrush current and stress on the electrical distribution system
- Selectable strapping facilitates multiple relays on one Radia control channel for large area control
- Manual on/off override on each relay independent of control system
- Relays retain their state during power and control system outages
- Visual status indicators on each relay
- Latching relays do not consume any control current, except when they change state, eliminating the need for additional Radia power supplies

Specifications

- Dimensions (HW): 10.00" x 2.75" (25.40 cm x 6.99 cm)
- Non-phase dependant
- Use wires rated at 75°C (167°F)
- Torque terminals to 4.4 in lbs.
- Wire size: 26 AWG to 10 AWG
- Wire stripping length: 0.28" (7 mm)
- Weight: 1.5 lbs.

Included Accessories

- 4 mounting screws
- Control wiring harness

RDM-6EM UL and C-UI Ratings

- General purpose: 120, 240, 277, and 347* VAC, 20 A
- UL/CUL916 Energy Management Systems.
- UL/CUL508 Industrial Control Systems.
- * Agency Approval Pending

Suggested Switched Loads

- Incandescent
- Fluorescent
- Transformer
- Low voltage
- General purpose

Caution: Pre-Installation Notes

- All Class 1 wiring must be connected to proper terminals.
- All control wiring must be connected to proper terminals.
- Disconnect power while installing or connecting the unit.
- Keep top and bottom air vents clear at all times.
- Test loads for shorts before connecting.
- Use low voltage wires with a 300 volt rating or greater.
- Use field installed copper conductors.
- All electrical ratings are for continuous duty.
- For indoor use only.

Jumpers Information

Jumpers provide user-selectable configuration options on the Radia Energy Management Modules.

JUMPER INFORMATION	
Sequencing Delay Jumpers (JP1 and JP2)	The sequencing delay jumpers are set to short (0.5 sec.) delay by default. Installers can also select settings of no delay, medium delay (1.0 sec.) and long delay (1.5 sec.) between relays to minimize inrush current and stress on the electrical system.
Control Port Strapping Jumpers (JP3 - JP7)	Each relay is set to an individual Radia port by default. Installers have the option of setting multiple relays to an individual Radia port for large area control. <i>Example:</i> To combine A and B set JP3 to the ON position.

The following table describes the jumper settings for various delays and strapping:

JP1 - JP2 JUMPER SETTINGS		
JP1	JP2	Delay
off	off	no delay
off	on	short delay (0.5 sec.)
on	off	long delay (1.5 sec.)
on	on	medium delay (1.0 sec.)

Visual Status Indicators/Manual Override

Each relay includes a green lever that serves as both a status indicator and manual override switch. With the lever to the left (towards the wire terminals) the relay is in the OFF position. With the lever to the right the relay is in the ON position.

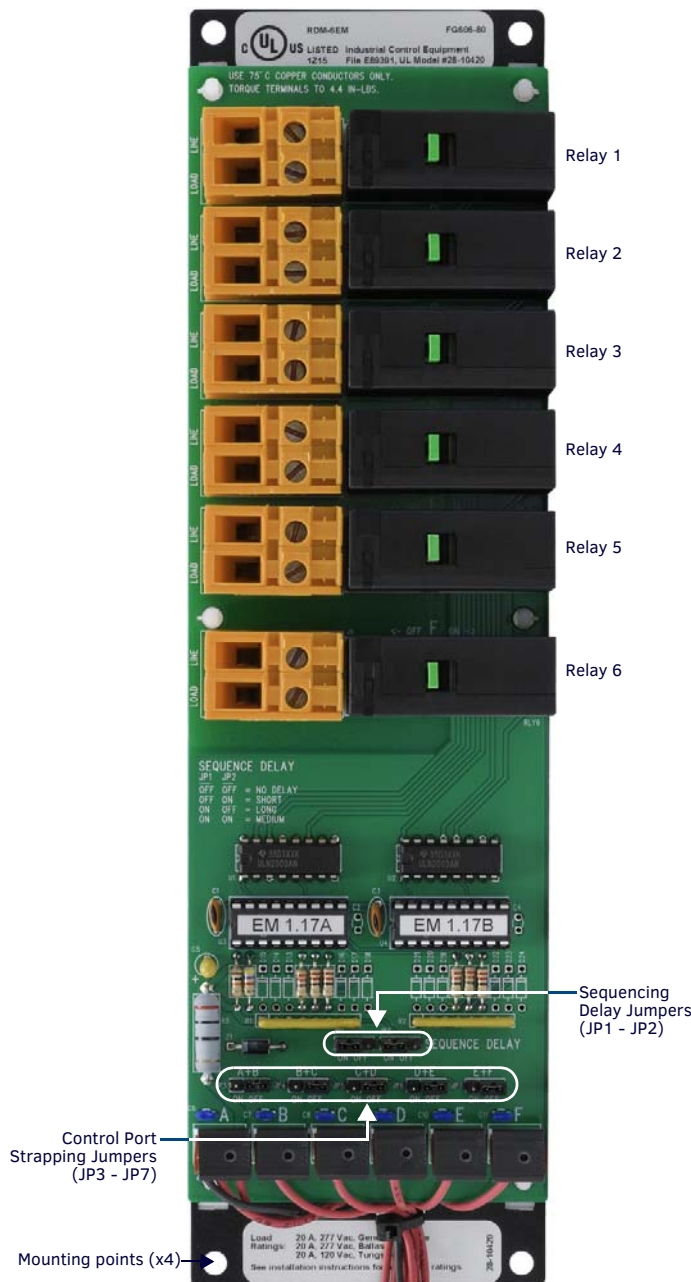


FIG. 1 RDM-6EM

Connecting the RDM-6EM

Connect Pins 1, 3 and 4 On the "A" Connector Only

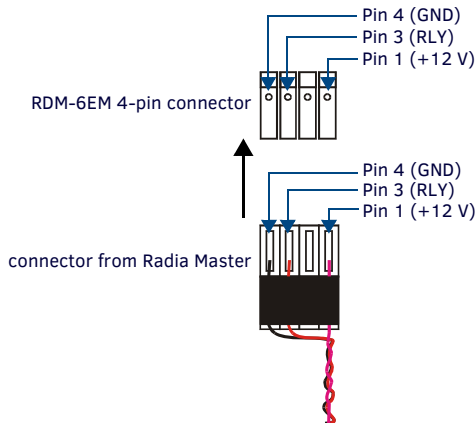


FIG. 2 RDM-6EM WIRING CONNECTIONS - **CONNECTOR "A" ONLY**

Connect Only Pin 3 On the Remaining Connectors ("B" Through "F"):

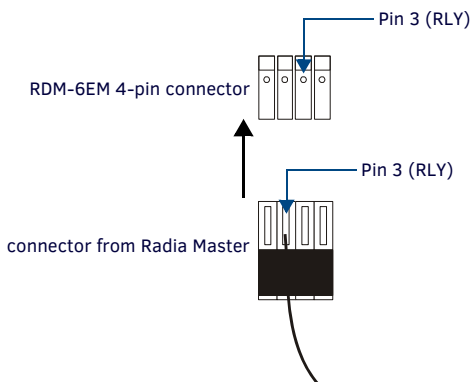


FIG. 3 RDM-6EM WIRING CONNECTIONS - **CONNECTORS "B" THROUGH "F"**

Connect the LINE IN and LOAD Wiring On the (Orange) 2-Pin Channel Connectors:

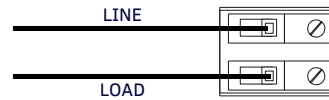


FIG. 4 2-PIN CHANNEL CONNECTORS

