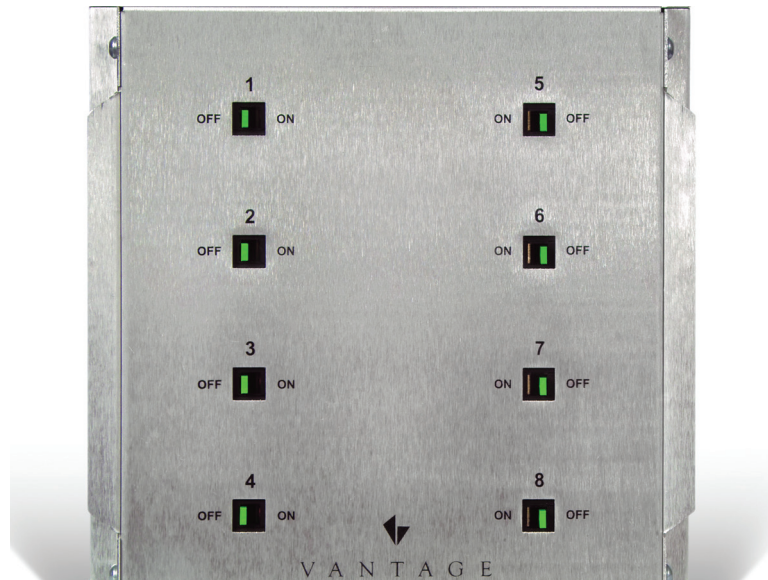


# LATCHING RELAY MODULE

MDR8RW101 / MDR8RW201



## DESCRIPTION

The InFusion Latching Relay is an integral component to Vantage's centralized lighting control system. It can be mounted in a main or secondary power enclosure and supports control of up to 8 loads with up to eight line feeds and up to 80 total amps of load. The Latching Relay Module provides relay functions on eight individual load channels. Every load is controlled by a high-voltage relay and is powered by two loads per 20 Amp circuit breaker. Two relay modules are available. One module features control for 120V and the other controls 210-277V. The relays are UL and CUL listed and support plug load management for an energy code compliant solution. Enclosures and modules provide new module locking mechanisms for improved in-field plug-and-play installation and service, allowing modules to be quickly replaced without affecting load connections to the system. All A/C wiring is terminated into screw terminal connectors within the enclosure. This feature allows the Relay Module to be installed after the building has been finished, eliminating the potential for damage during construction. The relay also features zero-cross switching technology to minimize wear on the electrical contacts and increase the life of the module.

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## FEATURES

- Supports control of up to 8 line voltage loads
- Zero-cross switching prevents arcing and extends module life
- Includes individual switches for direct control of each of the eight relays
- Plug and play design into enclosure terminal boards eliminates the need for field wiring to the module
- Offers load by load selectable manual override
- Displays the operating and fuse status with
- LED indicators including:
  - Microprocessor status
  - Line feed power
  - Load status
  - Manual override
- Includes fuses to protect the module
- Self-powered design for uninterrupted lighting during servicing

PROJECT	LOCATION/ TYPE

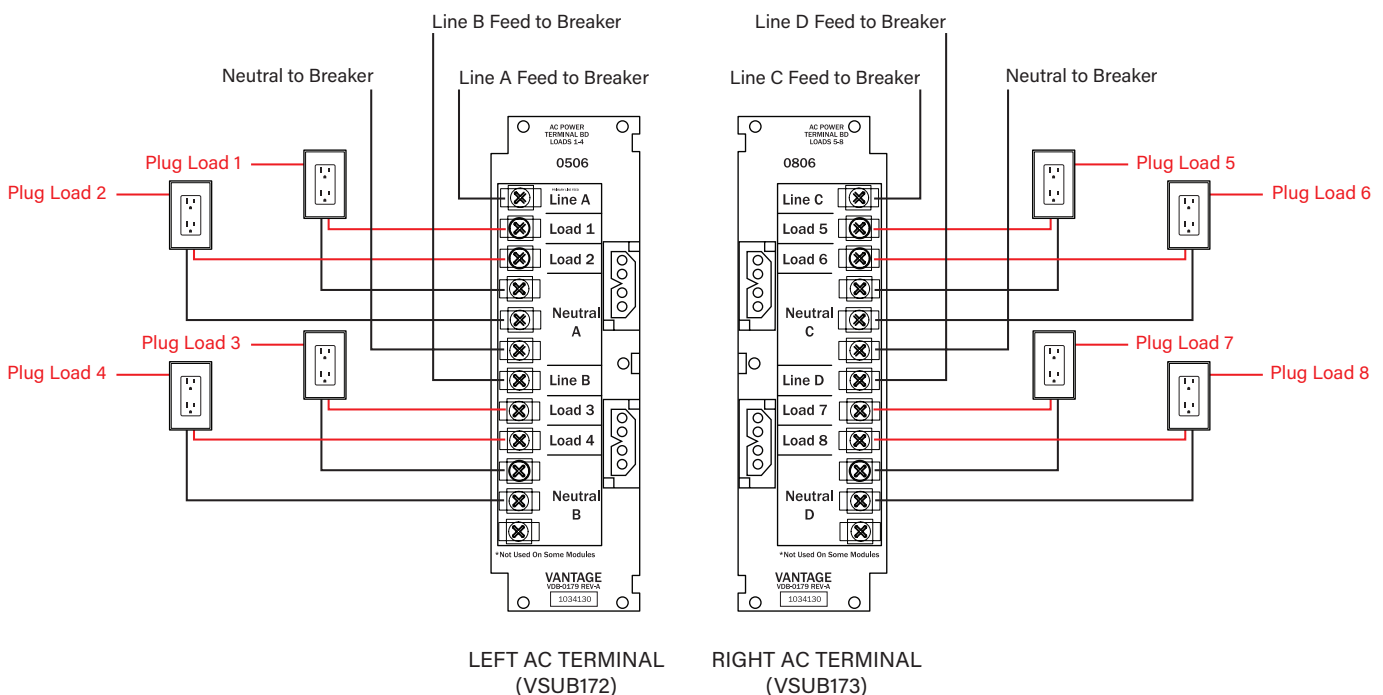
## SPECIFICATIONS

Dimensions (HWD):	7.62" x 6.9" x 1.875" (194mm x 175mm x 47.6mm)
Model:	MDR8W101 / MDR8W201
Weight:	1 lb 11 oz. (765g)
Models:	MDR8RW101 & MDR8RW201
Weight:	1lb. 11oz. (765g)
Voltage:	MDR8RW101 is 120V ~ 60/50Hz; MDR8RW201 is 210-277V ~ 60/50Hz
Ambient Operating Humidity:	5 - 95% non-condensing
Ambient Operating Temperature:	32 - 104°F (0 - 40°C)
Arc Suppression:	Zero cross built-in arc suppression
Built-in Protection:	MOV surge suppression
Cooling:	None required
Lightning Surge Protection High-voltage:	IEEE C62.41 (6000V & 3000A)
Lightning Surge Protection Low-voltage:	ITU-T K.20
Loads:	8
Load Types:	Incandescent, Fluorescent, Constant speed motors, HID, Cold cathode
Manual Override:	Load by load selectable
Maximum Amperage per Module:	80A (9600W @ 120V); *(22160W @ 277V); *(19200W @ 240V)
Maximum Individual Load Amperage:	20A (2400W @ 120V); *(5540W @ 277V); *(4800W @ 240V)
Maximum Line Feeds:	4 @ 20A (Maximum) breakers
Status Indicators:	Line power, load power, microprocessor status, manual control
System Compatibility:	InFusion
UL and CUL Listed:	Yes
Wiring Requirements Specifications:	Copper wire, minimum of 80°C (176°F) insulation

## WIRING DIAGRAM

This diagram demonstrates a typical terminal board wiring for plug loads and switch outlets.

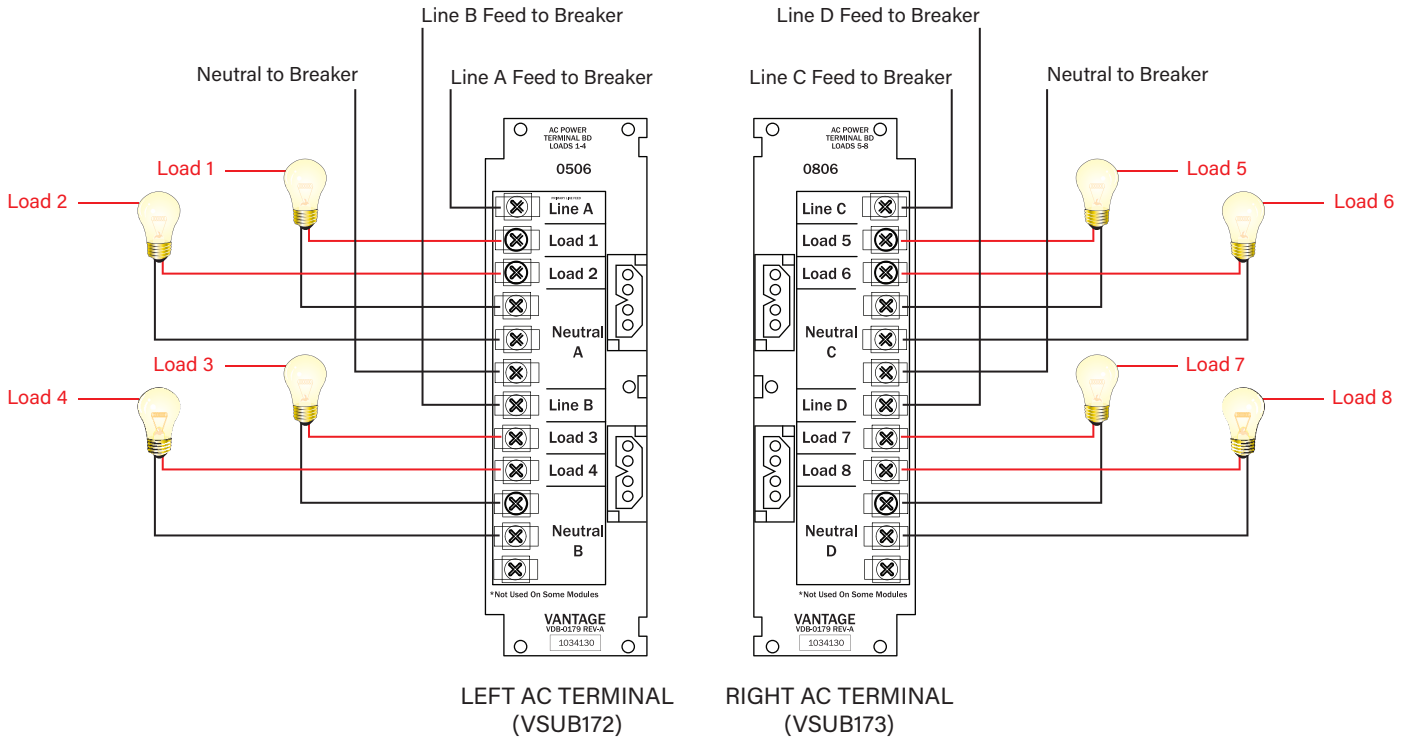
### LEFT and RIGHT LEGACY TERMINAL BOARD KIT (TLM-KIT)



WIRING DIAGRAM

This diagram demonstrates a typical terminal board wiring for legacy relay.

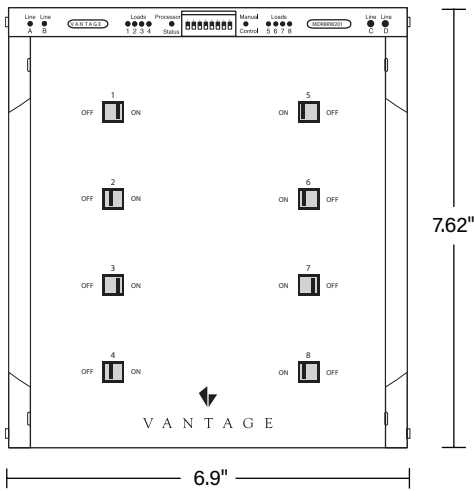
LEFT and RIGHT LEGACY TERMINAL BOARD KIT (TLM-KIT)



CONNECTOR	TORQUE	WIRE RANGE
Line/Load Wiring	18 Inch Pounds	14-10 AWG*
Ground Bars	35 Inch Pounds	14-10 AWG*
Enclosure Power	18 Inch Pounds	14-10 AWG*

\* MUST MATCH BREAKER WIRE GAUGE

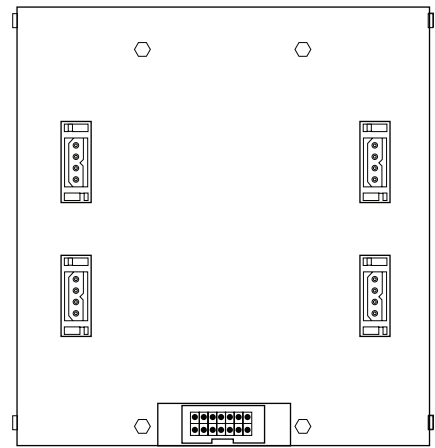
MULTI-VIEW LINE DRAWING



FRONT VIEW



SIDE VIEW



BACK VIEW

ORDERING INFORMATION

Catalog #		Description
<input type="checkbox"/>	MDR8RW101	Latching Relay Module - 120V
<input type="checkbox"/>	MDR8RW201	Latching Relay Module - 277V