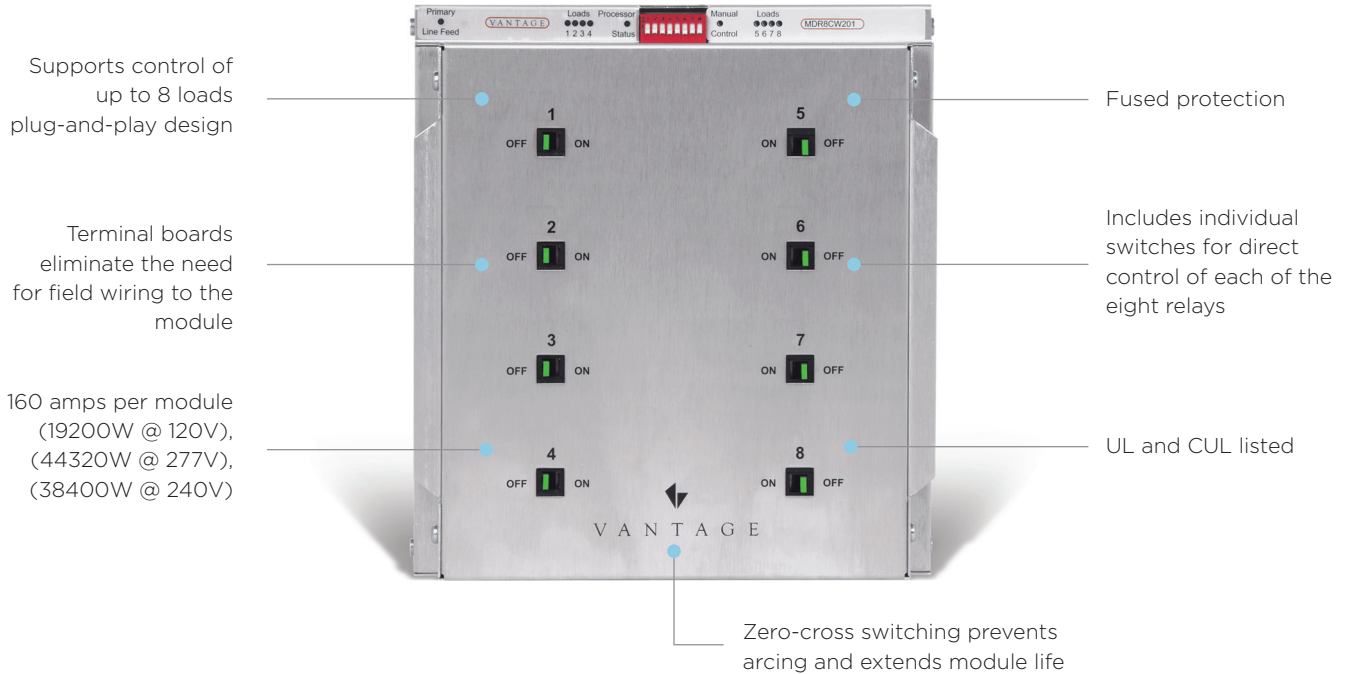




EIGHT LINE FEED RELAY MODULE

load controls

MDR8RW301



product overview

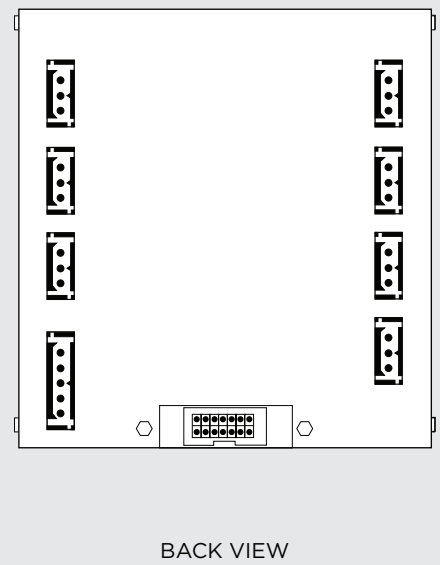
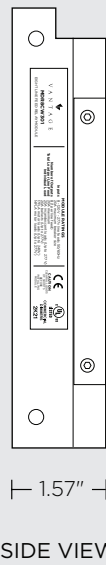
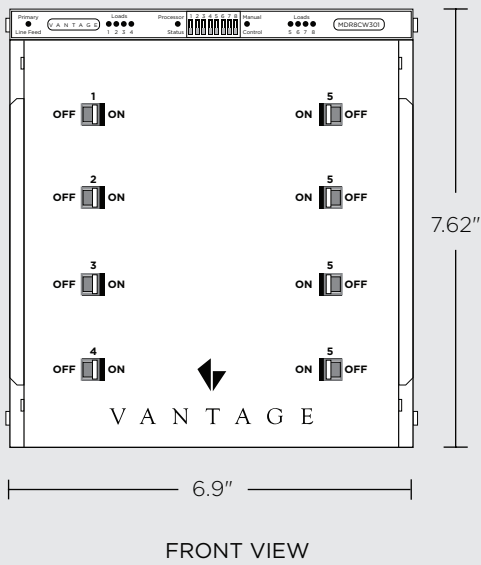
description

The InFusion Eight Line Feed Relay (MDR8RW301) 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 eight loads with up to eight line feeds and up to 160 total amps of load.

operation

The Vantage Eight Line Feed Relay Module provides relay functions on eight individual load channels. Every load is controlled by a high voltage relay and is powered by a 20 amp circuit breaker. Each relay incorporates zero-cross switching technology to prevent arcing and extend the life of the module. The module also includes individual switches to directly control each relay.

PROJECT	
LOCATION/TYPE	



highlights

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. Field Serviceability is enhanced with field service alerts sent via email to installers for their convenience. Programming, installing, and replacement have been made easier with these added features.

features

- Zero-cross switching prevents arcing and prolongs module life
- Includes individual switches for direct control of each relay
- Plug-and-play design into enclosure terminal boards eliminates the need for field wiring to the module
- Offers load by load selectable manual override control

applications

The InFusion Eight Line Feed Relay Module is ideal for all lighting automation projects. Vantage's InFusion systems are fully compliant with 2013 Title 24 requirements for both residential and non-residential buildings. Additionally, the relay is UL and CUL listed. The InFusion Eight Line Feed Relay Module is an integral component of Vantage's complete lighting control solution.

- Incorporates a self-powered design for uninterrupted lighting during servicing
- Displays the operating status with LED indicators including:
 - Microprocessor status
 - Line feed power
 - Load status
 - Manual override

specifications

Dimensions (HWD)

7.62" x 6.9" x 2.375"
194mm x 175mm x 60mm

General Specifications

Model	MDR8CW301
Weight	1 lb 11 oz. (765g)
Voltage	120/277V - 60/50Hz
Ambient operating humidity	5 - 95% non-condensing
Ambient operating temperature	32 - 104°F (0 - 40°C)
Arc suppression	Built-in current sensing arc/welding suppression
Built-in protection	MOV surge suppression
Cooling	None required
Line feeds	8 @ 20A (maximum) breakers
Load types	Incandescent, cold cathode, fluorescent, HID, constant-speed motors
Loads	8
Lightening surge protection high-voltage	IEEE C62.41 (6000V & 3000A)
Lightening surge protection low-voltage	ITU-T K.20
Manual override	Load by load selectable
Maximum amperage per module	160A (19200W @ 120V), (44320W @ 277V), (38400W @ 240V)
Maximum individual load amperage	20A (2400W @ 120V), (5540W @ 277V), (4800W @ 240V)
Status indicators	Primary line feed, individual load power, microprocessor status, manual control
UL and CUL listed	Yes

Wiring Specifications

Wire requirement	Copper wire, minimum of 80°C (176°F) insulation
------------------	---

System Compatibility

InFusion

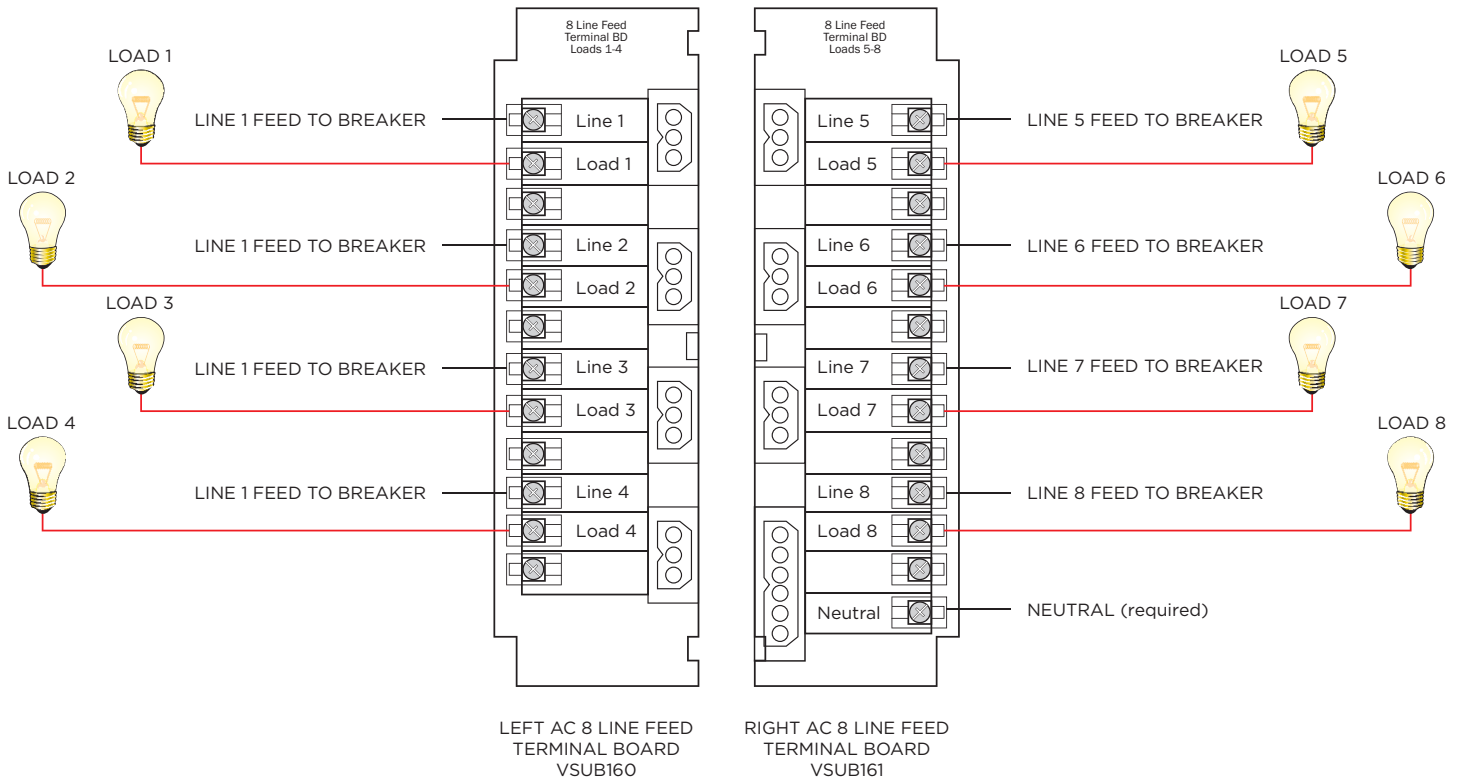
Ordering Information

CATALOG NO.	DESCRIPTION
<input type="radio"/> MDR8W301	Eight Line Feed Relay Module

typical terminal board wiring for 8 line feed relay module

All neutral connections are from the load fixture to the breaker, with the exception of line feed 8 which must have a neutral connection in addition to the neutral connection to the load fixture.

RIGHT and LEFT 8 LINE FEED LEGACY TERMINAL BOARD KIT
T8LRM-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