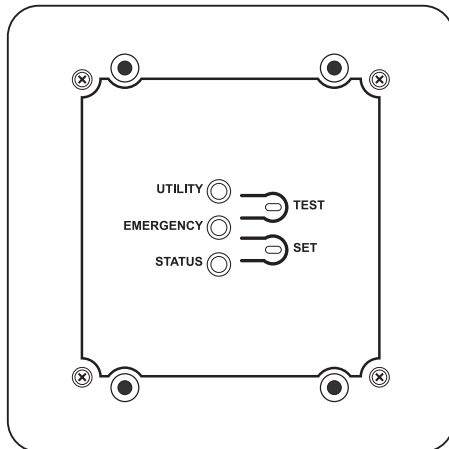


AD-EPC-D-F-ATS • Les Numéros de Catalogue • Los Números de Catálogo:

Country of Origin: Made in China • Pays d'origine: Fabriqué en Chine • País de origen: Hecho en China



SPECIFICATIONS

Mechanical Specifications:

Mounting.....	4-11/16" Junction box with extension box
Plastic Flame Rating	UL94-5VA
Shipping Weight	22 oz.
Color.....	White
Operating Temperature	32° - 140°F (0° - 60°C)
Flush Mounted Size.....	6" x 6" x 1/2"
Body Size	4-1/4" x 4-1/4" x 2-1/4"

Electrical Specifications:

Sensing Input	120-277VAC 50-60Hz
Unit Power Consumption.....	7W Max
Continuous Load Current	Not to exceed 100% of switch rating
16 Amp Ballast Load Rating	120-277V
16 Amp Tungsten Load Rating	120-277V
16 Amp General Use Rating.....	120-277V
1920W Incandescent Load Rating	120V
4432W Incandescent Load Rating	277V
UL Listing.....	UL 1008 Listed (usUL/cUL)

OVERVIEW

The AD Emergency Lighting Transfer Switch converts up to 16A of normal light fixtures to approved emergency lights. During normal operation, the AD-EPC-D-F-ATS feeds designated emergency lights from the normal power circuit and allows them to switch or dim with the same control as normal lights. During a utility power interruption, the AD-EPC-D-F-ATS feeds designated emergency lights from the emergency power circuit, at full brightness, regardless of switch or dimmer position.

NOTE: Intended for use with **2 wire, 3 wire, and 4 wire dimmable loads** (includes line voltage and 0-10V dimming as well as ON/OFF loads).

APPLICATION

THREE TESTING METHODS

Integral Test Switch provides convenient anytime testing.

Automatic Test Option provides automatic and monthly self-testing.

Fire Alarm/Dry Contact Option allows emergency lighting activation from fire, security alarm or remote test switch.

FOUR SAFETY AND RELIABILITY INTERLOCKS

Voltage Sensing Interlock senses back-feed or erroneous voltage on load terminals during transfer through optically isolated sensors.

Time Delay Interlock ensures break-before-make transfer operation. Reduces or eliminates phase-phase arcing risk.

Relay Position Detection detects relay malfunction (such as welding) and alerts microprocessor to stop transfer to prevent phase-phase shorting across relays.

Mechanical Interlock unique contact arrangement of relays prevents normal and emergency sources from being connected, even if all other interlocks fail.

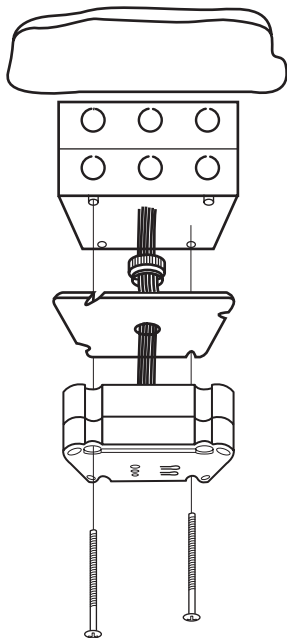
METHOD OF OPERATION

The model AD-EPC-D-F-ATS is a single-zone silent transfer switch for emergency lighting applications. Versatile, small, and cost effective, and designed to work with all modern dimming types including 2-wire and 3-wire line voltage, 0-10V and DALI low-voltage. AD-EPC-D-F-ATS is compatible with all lighting types including LED, fluorescent, incandescent. The AD-EPC-D-F-ATS allows emergency and normal lighting to be dimmed from the same dimmer during normal operation. During emergency operation (power interruption), the AD-EPC-D-F-ATS will transfer the emergency lighting to the emergency power source and bypass all dimming controls, bringing the emergency lighting to 100% (full) brightness, regardless of dimmer level. A momentary test switch on the front cover allows the user to simulate a power interruption when pressed.

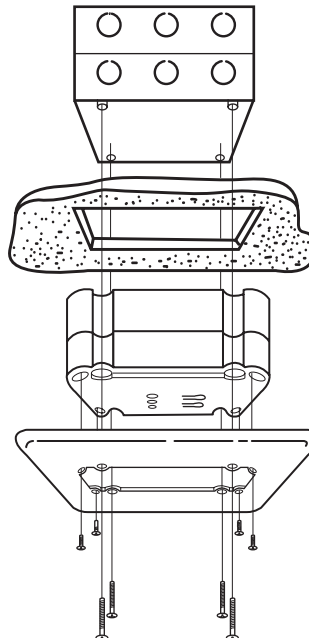
INSTALLATION

In order to install device in accordance with national/local code requirements, a qualified electrician should review and understand the installation instructions. Check voltage and current requirements. Verify and lock out circuit breakers on both regular (utility) power and 24 hour emergency generator or inverter circuit. Install a self-adhesive 2" x 3" caution label in each fixture or load controlled by an AD-EPC-D-F-ATS unit cautioning that this load is supplied from 2 different power sources, regular and emergency. Review wiring diagram and connect wires, one at a time, in accordance with the numeric identification.

SURFACE MOUNT INSTALLATION



FLUSH MOUNT INSTALLATION



EPC-D-F-ATS Includes:



- Flush adapter ring
- Plastic 1/2" lock nut

Suggested Box: (Not included)

- 4-11/16" (2-1/8" deep) and 2-1/8" Extension Box

For Plenum Applications:

- Suggested Box: 6x6 or 8x8 box with blank cover (Not Included)
- Plenum rated test switch is available upon request

 **CAUTION:** This light fixture is powered by two circuits: The 24-hr night light / emergency circuit must be turned off in addition to the regular power branch circuit breaker before serving this light fixture. 

NOTE: USE CU WIRE ONLY

INITIAL TESTING

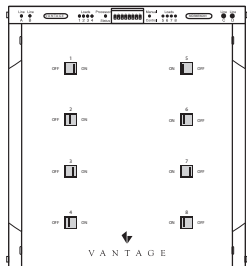
1. Turn on normal power circuit breaker, utility power GREEN LED should be illuminated.
 2. Turn on 24/7 emergency power circuit breaker, emergency power RED LED should be illuminated.
 3. Do not turn dimmer system on yet. Press test switch on AD-EPC-D-F-ATS. Designated emergency fixtures should come on at full brightness. Alternatively, you may turn off the normal power breaker to test the AD-EPC-D-F-ATS.
 4. With normal power breaker on, operate the dimmer control and observe if all fixtures turn on, including designated emergency fixtures. Load BLUE LED should be illuminated when load is on.
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FINAL TESTING

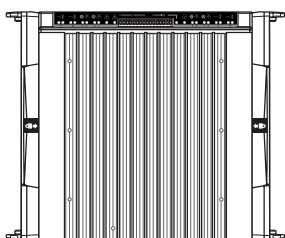
1. Coordinate a convenient time to turn off the main circuit breaker with building occupants.
2. With main circuit breaker off, emergency circuits will be powered by the generator, inverter, or UPS.
3. Emergency luminaires connected to AD-EPC-D-F-ATS should be ON at full brightness, regardless of dimmer system setting. This is the intended function of AD-EPC-D-F-ATS and conforms to UL1008, NEC, and NFPA101 requirements.

2 TO 4 WIRE EXAMPLE

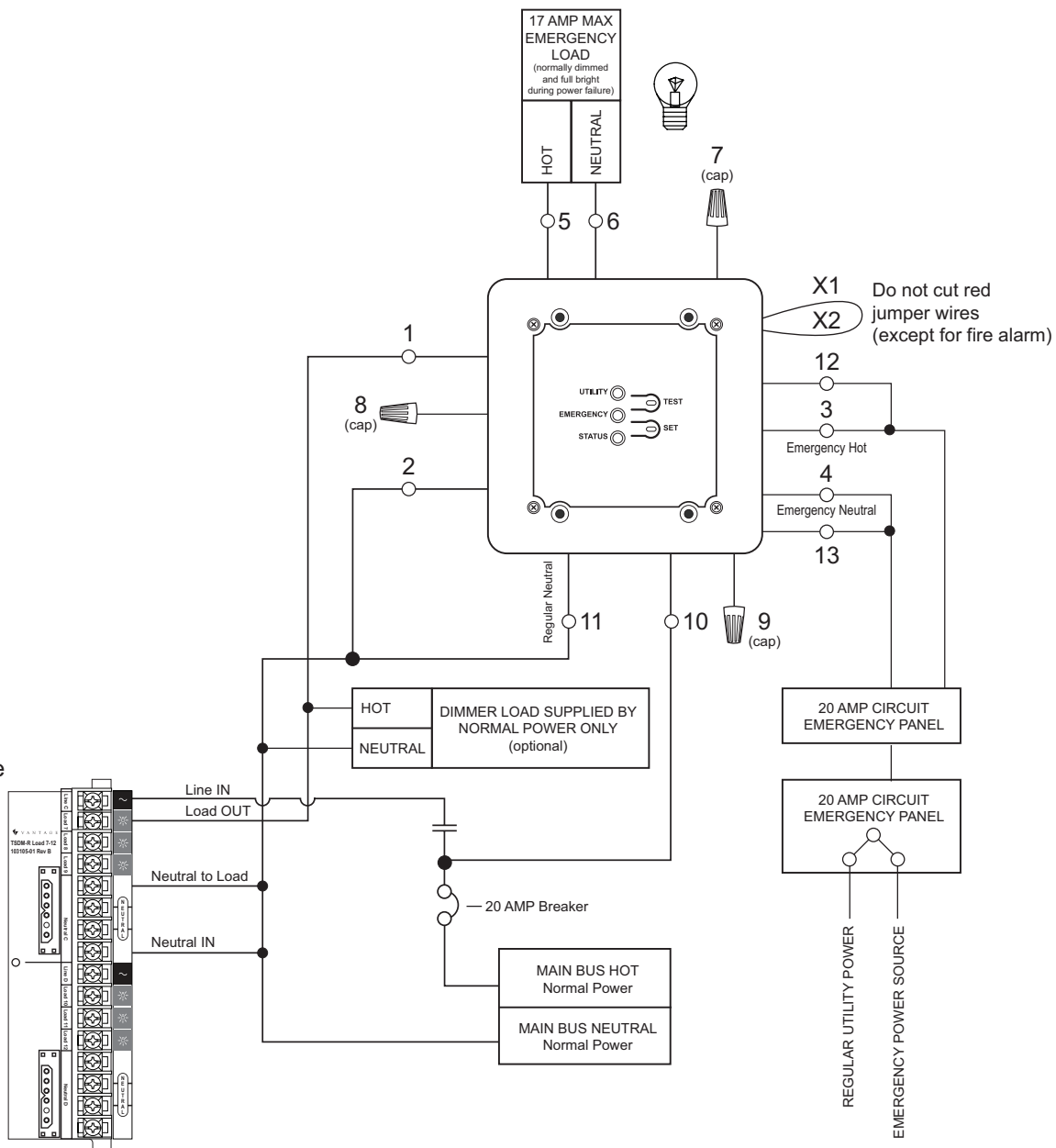
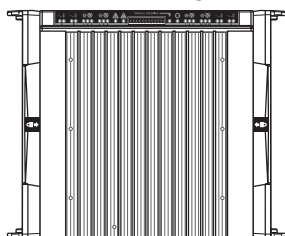
**MDR8RW301
Relay Module**



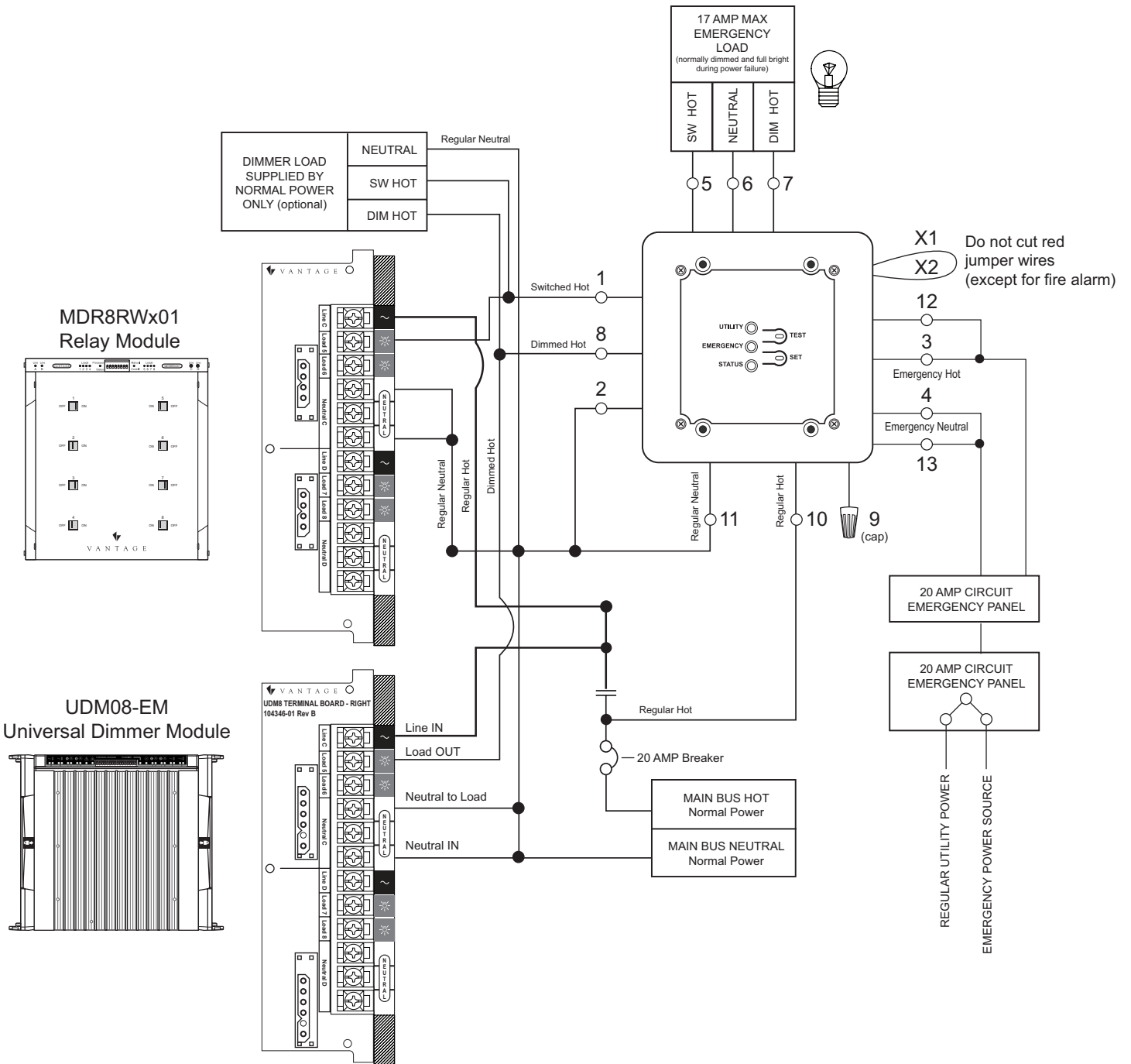
**UDM08-EM
Universal Dimmer Module**



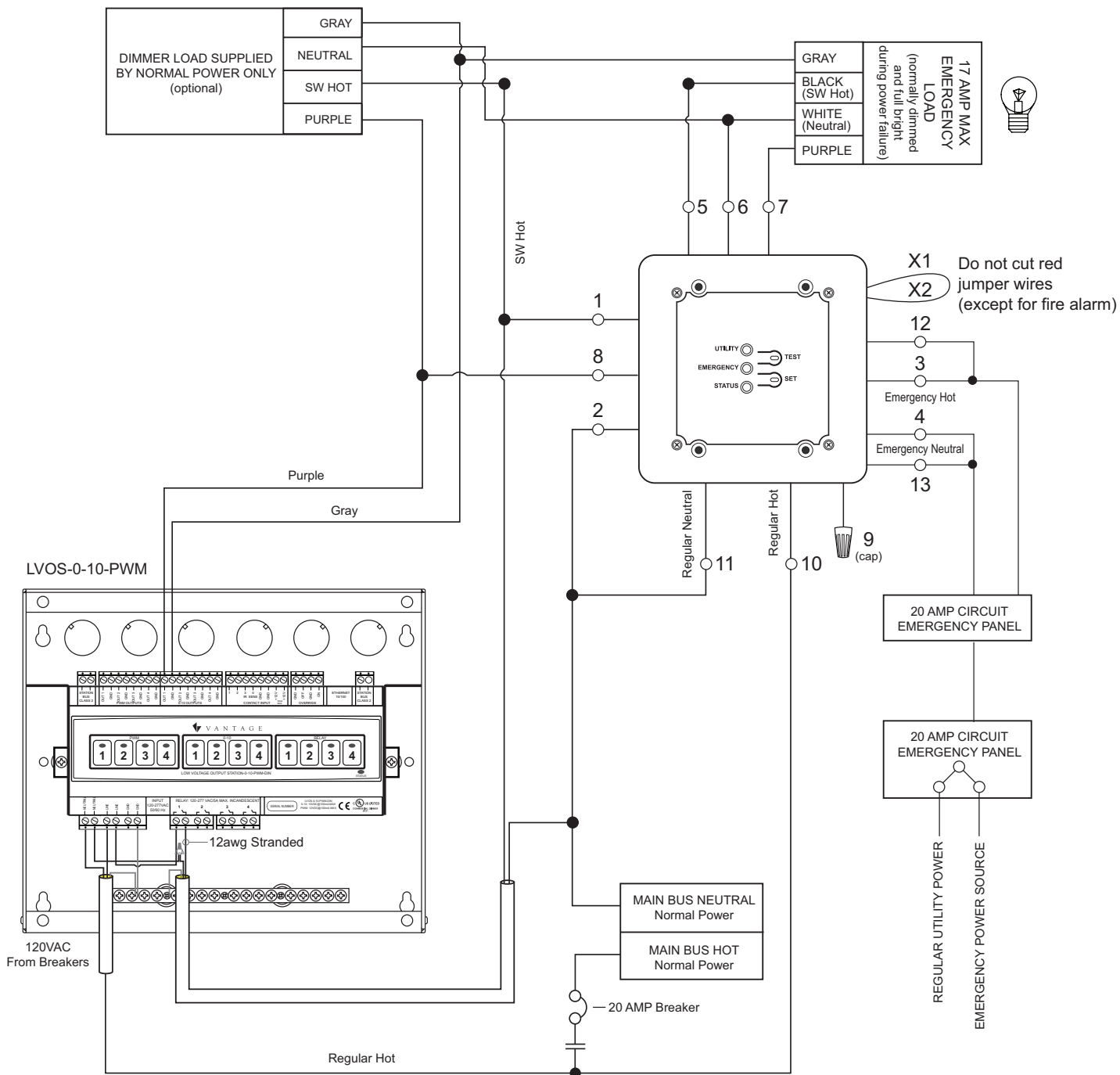
**SDM12-EM
Standard Dimming Module**



3 WIRE EXAMPLE - REVERSE PHASE DIMMING WITH RELAY



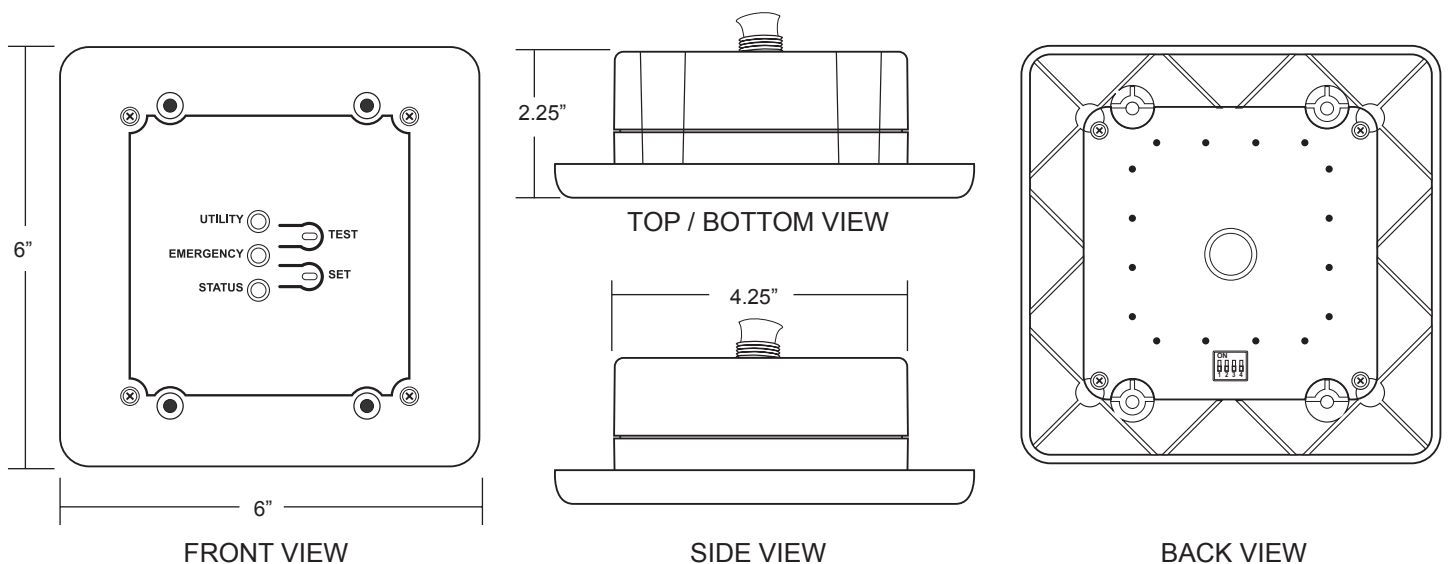
4 WIRE EXAMPLE - LVOS-0-10-PWM-1 DIMMING



AD-EPC-D-F-ATS DIP SWITCH SETTINGS

<p>ON NO Monthly Automatic Test NO Fire Alarm/Remote Test Switch DEFAULT (replaces EPC-D-F)</p> <p>OFF 1 2 3 4</p>	<p>ON NO Monthly Automatic Test YES Fire Alarm/Remote Test Switch (N/C)</p> <p>OFF 1 2 3 4</p>
<p>ON YES Monthly Automatic Test NO Fire Alarm/Remote Test Switch</p> <p>OFF 1 2 3 4</p>	<p>ON YES Monthly Automatic Test YES Fire Alarm/Remote Test Switch (N/C)</p> <p>OFF 1 2 3 4</p>
<p>ON NO Monthly Automatic Test YES Fire Alarm/Remote Test Switch (N/O)</p> <p>OFF </p>	<p>ON YES Monthly Automatic Test YES Fire Alarm/Remote Test Switch (N/O)</p> <p>OFF </p>

MULTI-VIEW LINE DRAWING



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