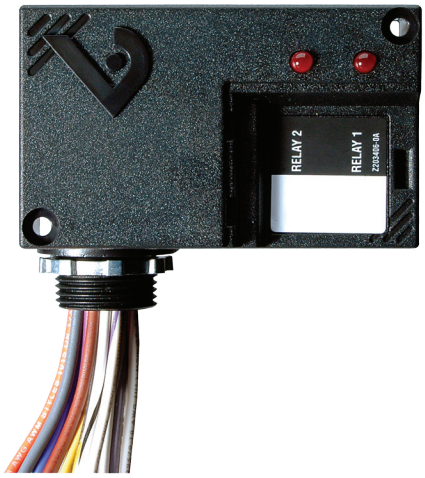
# V200D

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## ⚠ DANGER ⚠

**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**

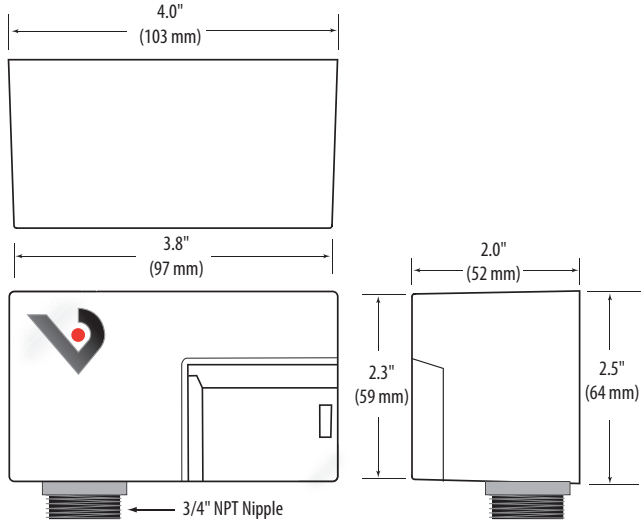
- Follow safe electrical work practices. See NFPA 70E in the USA, or applicable local codes.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Read, understand and follow the instructions before installing this product.
- Turn off all power supplying equipment before working on or inside the equipment.
- Use a properly rated voltage sensing device to confirm power is off. DO NOT DEPEND ON THIS PRODUCT FOR VOLTAGE INDICATION

**Failure to follow these instructions will result in death or serious injury.**

## NOTICE

- This product is not intended for life or safety applications.
- Do not install this product in hazardous or classified locations.
- The installer is responsible for conformance to all applicable codes.
- Mount this product inside a suitable fire and electrical enclosure.

## DIMENSIONS




# V200D

## Dual 10A SPDT Enclosed Relays
## 10-30 VDC/AC or 208-277 VAC Coil

*Installer's Specifications*

| | |
|---|---|
| Operating Temperature | -40°C to 55°C (-40° to 131°F) |
| Operating Humidity | 10-90% non condensing |
| Expected Relay Life | Electrical (at rated current): 100,000 cycles<br>Mechanical (unpowered): 10,000,000 cycles |
| Relay Status | LED ON=energized |
| *Wire Specifications:* | |
| Lead Length | 14" (356mm) min. |
| Gauge | UL1015; Coil: 18AWG; Contacts: 16AWG |
| Insulation Class | 600VAC RMS |
| Agency Approvals | UL508 enclosed device listing |

## INSTALLATION

**Disconnect and lock out all power sources before beginning the installation.**

1. Using the threaded nipple connect the relay to the desired enclosure through a knock out hole.

2. Secure with the conduit nut provided.

*Relay #1*

3. Connect Coil:
   - Choose the coil common lead (white with yellow stripe) and connect it to the (-) source termination point.
   - Choose either the low voltage (10-30VAC/DC, white with blue stripe) or high voltage (208-277VAC, white with brown stripe) lead, depending on the application requirements, and connect it to the (+) source termination point.*

   NOTE: When connecting the control side of this device (#18 wires) to power line circuits, provide current limiting at 7 amps max.

4. Connect Relay Contacts:
   - Choose the relay common wire (yellow) and connect to switched load.

*Relay #2*

5. Connect Coil:
   - Choose the coil common lead (white with violet stripe) and connect it to the (-) source termination point.
   - Choose either the low voltage (10-30VAC/DC, grey with white stripe) or high voltage (208-277VAC, white with orange stripe) lead, depending on the application requirements, and connect it to the (+) source termination point.*

   NOTE: When connecting the control side of this device (#18 wires) to power line circuits, provide current limiting at 7 amps max.

6. Connect Relay Contacts:
   - Choose the relay common wire (violet) and connect to switched load.
   - Choose the relay N.O. (brown) and/or* N.C. (grey) lead and connect to switched load.

7. Secure the enclosure and reconnect power.

** Isolate or insulate all non-terminated wires according to local electrical code requirements, i.e. wire nut.*

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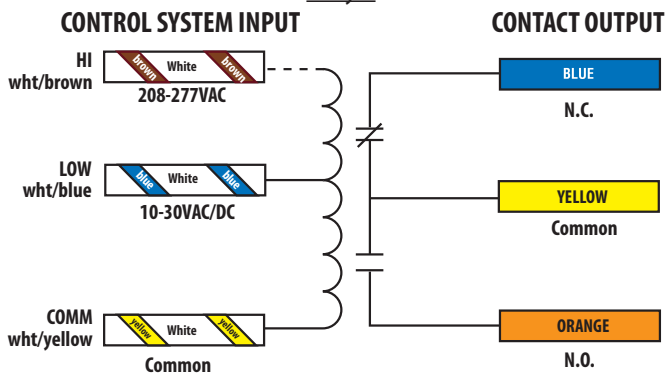
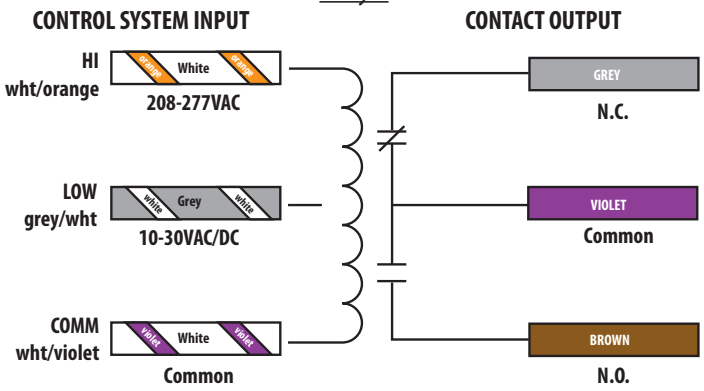
## WIRING COLOR CODES

*Relay 1*

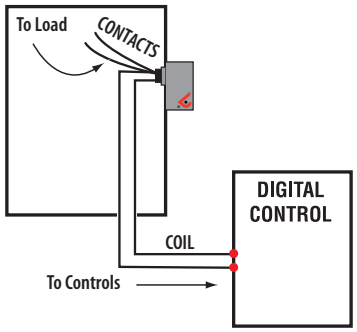



*Relay 2*

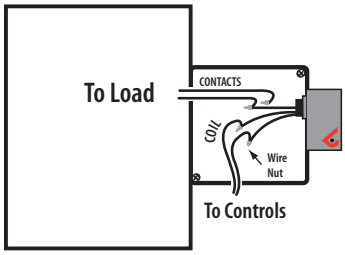



## WIRING EXAMPLE

*Nipple mount directly to a panel*




*Nipple mount to any 2x or 4x electrical box*




## CONTACT AND COIL SPECIFICATIONS

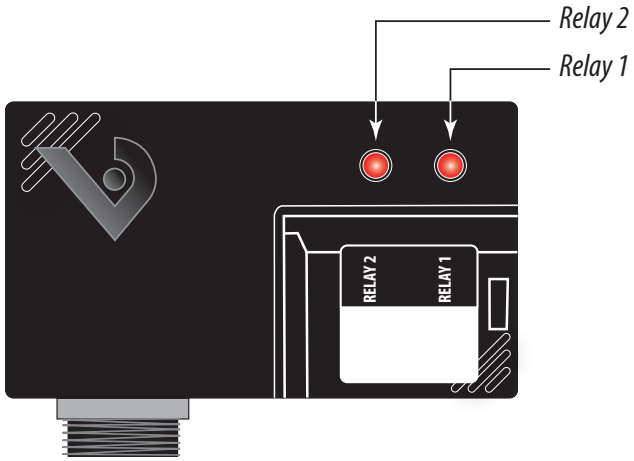
### TYPICAL COIL PERFORMANCE

| | AC | DC |
|---|---|---|
| **Pull in Voltage** | | |
| 10-30V | 8 | 9 |
| 208-277V | 154 | |
| **Drop Out Voltage** | | |
| 10-30V | 2 | 3 |
| 208-277V | 36 | |
| **Voltage** | **Coil Current** | |
| | AC | DC |
| 10V | 25mA | 14mA |
| 12V | 25mA | 14mA |
| 24V | 31mA | 16mA |
| 30V | 39mA | 18mA |
| 208V | 19mA | - |
| 277V | 25mA | - |

### CONTACT RATINGS

| | |
|---|---|
| **Resistive** | 10A@277VAC, 28VDC |
| **Motor** | 120VAC, 1/3HP N.O. & 1/6HP N.C. |
| | 240VAC, 1/3HP N.O. & 1/6HP N.C. |
| | 277VAC, 1/4HP N.O. & 1/8HP N.C. |
| **Pilot Duty** | 277VAC, (1.7A), 480VA N.O. |
| **Ballast** | 277VAC, 1.7A |
| **Tungsten** | 120VAC, TV3 N.O. TV2 N.C. |
| **Gold Flash** | Yes |

## LED CONFIGURATION

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