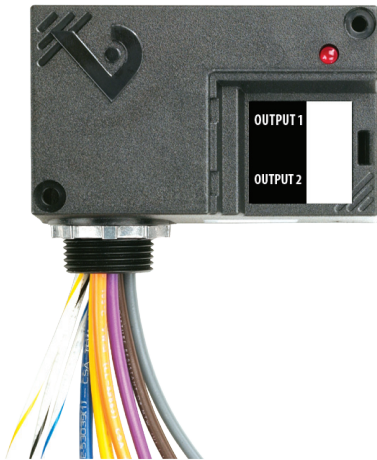


# V320



# V320

## 20A DPDT Enclosed Relay

### Installer's Specifications

|                             |  |
|-----------------------------|--|
| Operating Temperature       | -40°C to 40°C (-40° to 104°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   |
| <b>Wire Specifications:</b> |  |
| Lead Length                 | 14" (356mm) min.   |
| Gauge                       | UL1015; Coil: 18AWG; Contacts: 12AWG   |
| Insulation Class            | 277VAC RMS   |
| Agency Approvals            | UL508 enclosed device listing, pollution degree 2  |

### INSTALLATION

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

- Using the threaded nipple, connect the relay to the desired enclosure through a knock out hole.
- Secure with the conduit nut provided.
- Connect coil:
  - Choose the coil common lead (white with yellow stripe) and connect it to the common (-) source termination point.
  - Choose either the low voltage (24VAC/DC, white with blue stripe) or high voltage (120VAC, white with black 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.
- Connect relay contacts:

#### Output #1

- Choose the relay common lead (solid yellow) and connect it to the switched load.
- Choose the relay N.O. (solid orange) and/or the N.C. (solid blue) lead and connect it to the switched load.

#### Output #2

- Choose the relay common lead (solid violet) and connect it to the switched load.
- Choose the relay N.O. (solid brown) and/or the N.C. (solid grey) lead and connect it to the switched load.

- Secure the enclosure and reconnect power.

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

**⚠ 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.

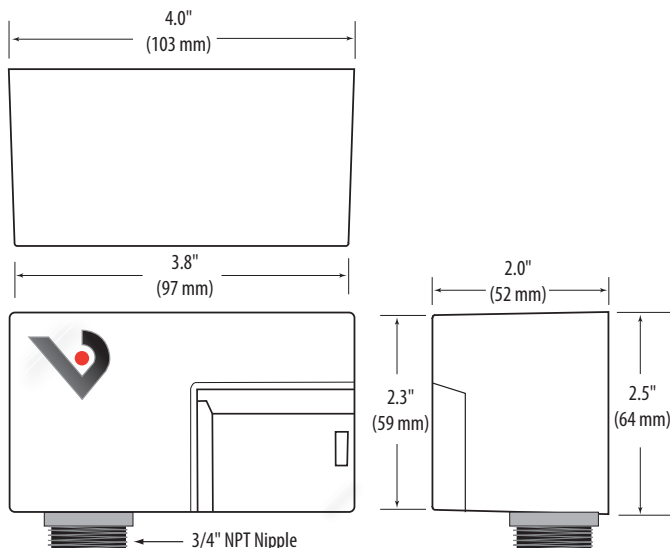
**DO NOT DEPEND ON THIS PRODUCT FOR VOLTAGE INDICATION**

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

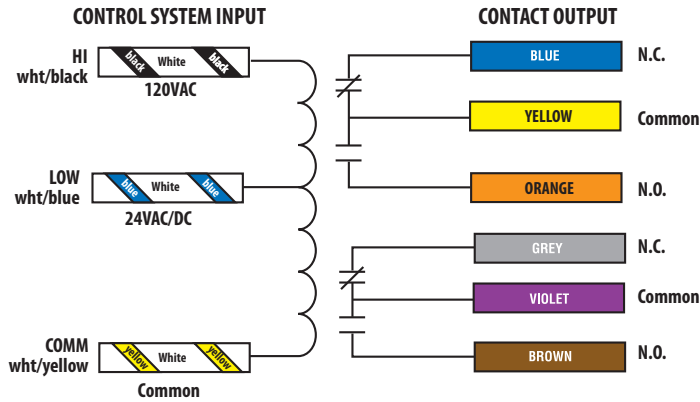
**NOTICE**

- 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.

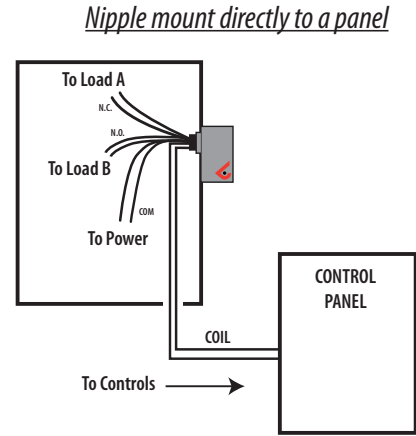
### DIMENSIONS



**WIRING COLOR CODES**



**WIRING EXAMPLE**

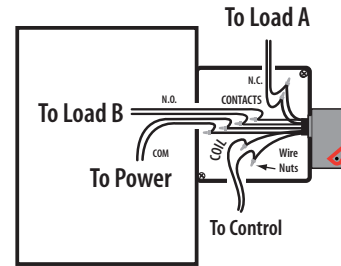


**CONTACT AND COIL SPECIFICATIONS**

| TYPICAL COIL PERFORMANCE |              |      |
|--------------------------|--------------|------|
| Voltage                  | Coil Current |      |
|                          | AC           | DC   |
| 24V.....                 | 150mA        | 64mA |
| 120V.....                | 84mA         | -    |

| CONTACT RATINGS |                                    |
|-----------------|------------------------------------|
| Resistive.....  | 20A@277VAC, 28VDC                  |
| Motor.....      | 120VAC, 1HP<br>277VAC, 2HP         |
| Pilot Duty..... | A300                               |
| Ballast.....    | 20A@277VAC N.O.<br>10A@277VAC N.C. |
| Tungsten.....   | 10A@120VAC N.O.<br>2A@120VAC N.C.  |

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



\* Isolate any unused wires, e.g. wire nut.