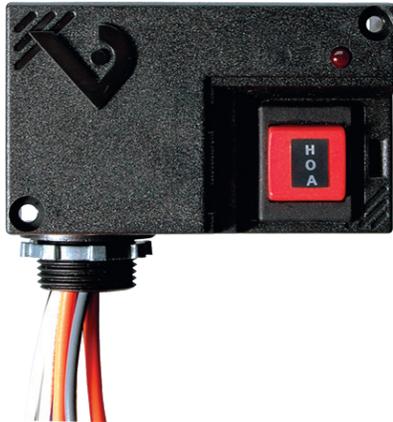


V223



V223

20A SPST Enclosed Relay With Digital HOA Monitor

Installer's Specifications

Operating Temperature	-40° to 60°C (-40° to 131°F)
Operating Humidity	10-90% RH, non-condensing
Expected Relay Life	Electrical (@ rated current) 100,000 cycles; Mechanical (unpowered) 10,000,000 cycles
Relay Status	LED ON=energized
Wire Specifications:	
Lead Length	14"(356mm) min.
Gauge	UL1015; Coil: 18AWG; Contacts: 12AWG; HOA monitor wires: 16AWG
Insulation Class	277VAC RMS
Digital Monitor Maximums:	
Dry Circuit Contact Rating (Max.)	24VAC/DC@100mA
Agency Approvals	UL 508 enclosed device listing, pollution degree 2

⚠ 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.

INSTALLATION

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

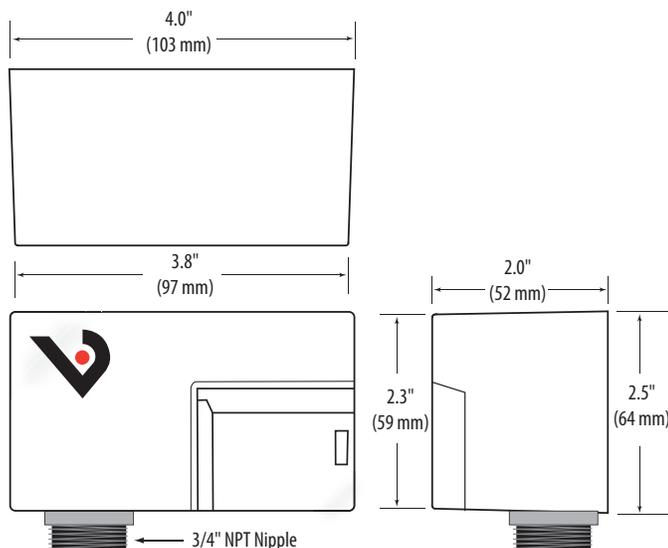
- Using the threaded nipple, connect the relay to the desired enclosure through a knock out hole.
- Secure with the conduit nut provided.
- Connect coil:
 - Choose the coil common lead (white with yellow stripe) and connect it to the common (-) source termination point.
 - Choose either the low voltage (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 currenting limiting at 7 amps max.
- Connect relay contacts:
 - Choose the two solid orange wires (N.O. contact) and connect to the switched load.
- Connect digital HOA monitor:
 - Choose the solid brown and solid grey wires and connect them to two different digital inputs, referencing the violet wire as common.

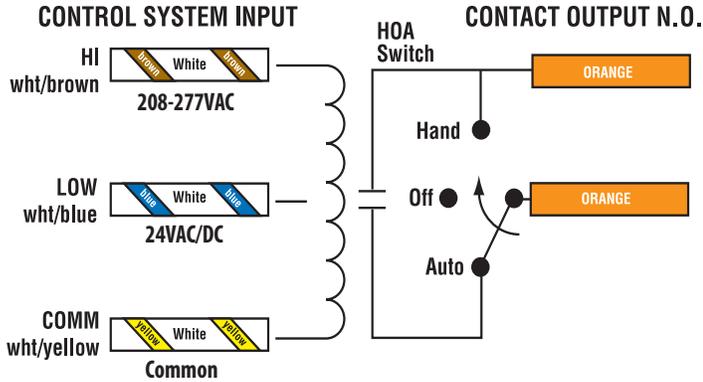
6. Secure the enclosure and reconnect power.

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

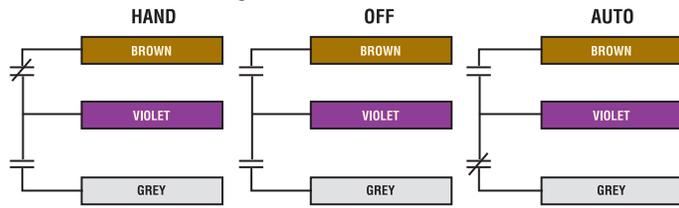
DIMENSIONS



WIRING COLOR CODES



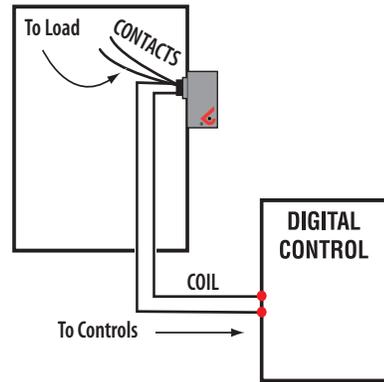
Digital HOA Position Monitor



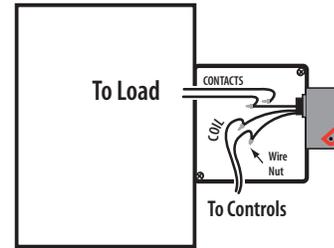
Switch Positions:
 HAND = Brown wire closed to Common
 OFF = Both wires open to Common
 AUTO = Grey wire closed to Common

WIRING EXAMPLE

Nipple mount directly to a panel



Nipple mount to a 2x or 4x electrical box

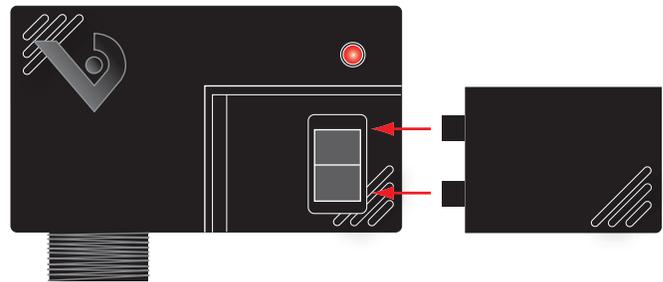


CONTACT AND COIL SPECIFICATIONS

TYPICAL COIL PERFORMANCE		
Coil Voltage 24VAC/DC, 208-277VAC		
Voltage	Coil Current	
	AC	DC
24V.....	75mA	32mA
208V.....	36mA	-
277V.....	49mA	-

CONTACT RATINGS	
Resistive.....	20A(r)@240VAC 8A@28VDC 14A@14VDC
Motor.....	250VAC, 1HP N.O. & N.C.

HOA POSITIONS



- HAND** Up position: contacts are closed.
- OFF** Middle position: contacts are open.
- AUTO** Down position: control system actuates the contacts.