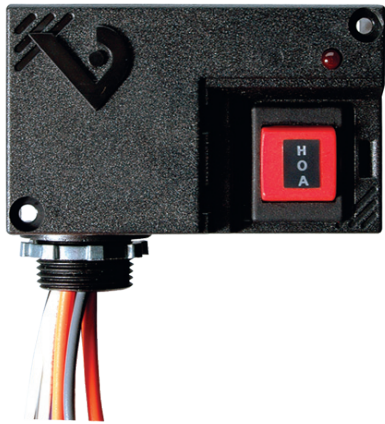


V103



V103

10A SPST Enclosed Relay With Digital HOA Monitor

Installer's Specifications

Operating Temperature	-40° to 55°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: 16AWG; HOA monitor wires: 16AWG
Insulation Class	600VAC RMS
Digital Monitor Maximum:	
Dry Circuit Contact Rating (Max.)	24VAC/DC@100mA
Agency Approvals	UL508 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

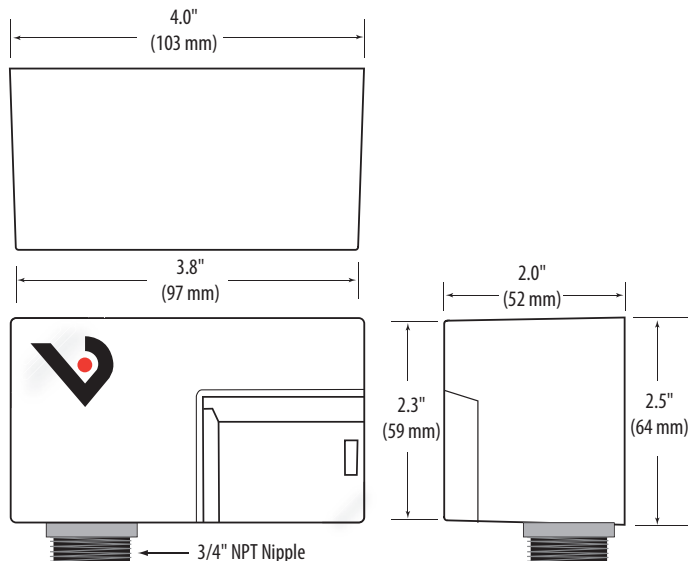
Disconnect and lock out all power sources before beginning the installation.

1. Using the threaded nipple, connect the relay to the desired enclosure through a knock out hole.
2. Secure with the conduit nut provided.
3. Connect coil wires:
 - 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 (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.
4. Connect relay contacts:
 - Choose the two solid orange wires (N.O. contact) and connect to the switched load.
5. Connect digital HOA monitor wires:
 - Choose the solid brown and solid grey wires and connect them to two different digital inputs, referencing the violet wire as common.

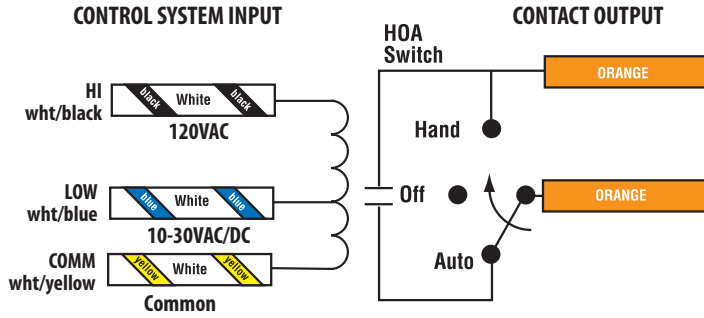
6. Secure the enclosure and reconnect power.

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

DIMENSIONS

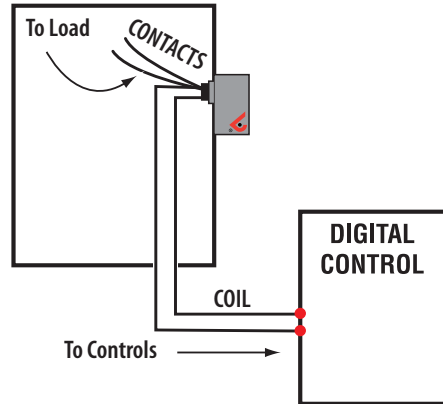


WIRING COLOR CODES

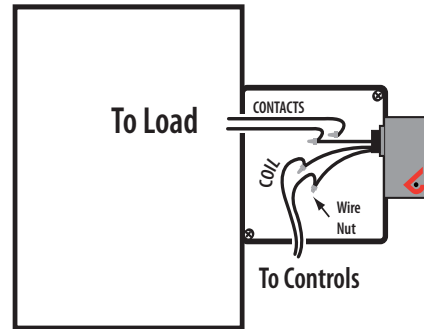


WIRING EXAMPLE

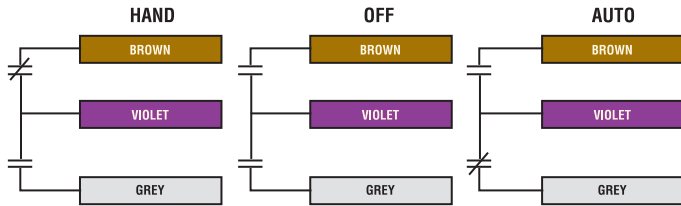
Nipple mount directly to a panel



Nipple mount to a 2x or 4x electrical box



Digital HOA Position Monitor



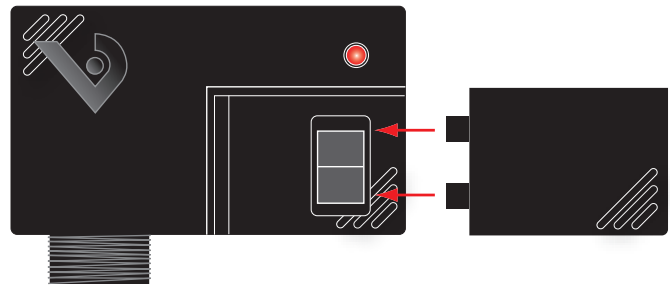
Switch Positions:
HAND = Brown wire closed to Common
OFF = Both wires open to Common
AUTO = Grey wire closed to Common

CONTACT AND COIL SPECIFICATIONS

TYPICAL COIL PERFORMANCE		
Pull in Voltage	AC	DC
10-30V.....	8	9
120V.....	78	
Drop Out Voltage	AC	DC
10-30V.....	2	3
120V.....	18	
Voltage	Coil	Current
	AC	DC
10V.....	25mA	14mA
24V.....	31mA	16mA
30V.....	39mA	18mA
120V.....	22mA	-

CONTACT RATINGS	
Resistive.....	10A@277VAC
Motor.....	1/3HP@120VAC
Gold Flash.....	Yes

HOA POSITIONS



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