

V202





V202

10A SPDT Enclosed Relay With Resistive 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
Resistive Monitor Maximus	ms:
Voltage Max.	13.4VAC/DC
Current Max.	4mA AC/DC
Agency Approvals	UL508 enclosed device listing, pollution degree 2

🖊 DANGER 🥢

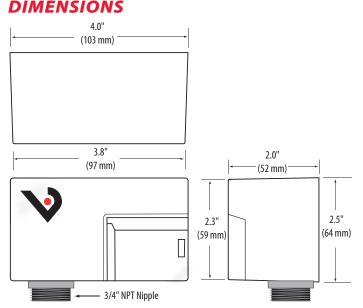
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- 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.

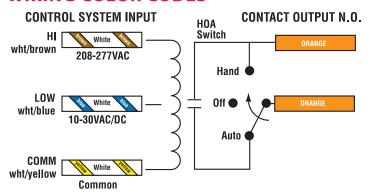
- 1. Using the threaded nipple, connect the relay to the desired enclosure through a knock out hole.
- 2. Secure with the conduit nut provided.
- 3. Connect coil wires:
 - Choose the coil common lead (white with yellow stripe) and connect it to the common (-) source termination point.
 - Choose either the low voltage (10-30VAC/DC, white with blue stripe) or high voltage (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 two orange wires (N.O. contact) and connect to the switched load.
- 5. Connect resistive HOA monitor wires:
 - Choose the two solid grey wires and connect them to a resistive $(0-10k\Omega)$ input in the control system.
- 6. Secure the enclosure and reconnect power.
- 7. Program the resistive input to the ranges listed.
- * Isolate or insulate all non-terminated wires according to local electrical code requirements, i.e. wire nut.

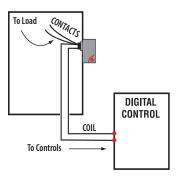


WIRING COLOR CODES

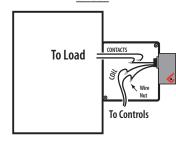


Nipple mount directly to a panel

WIRING EXAMPLE

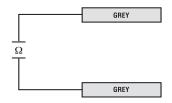


Nipple mount to a 2x or 4x electrical box

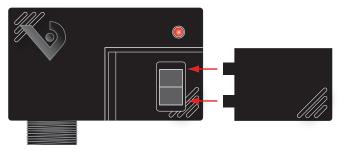


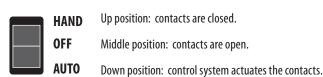
Resistive HOA Position Monitor





HOA POSITIONS





CONTACT AND COIL SPECIFICATIONS

TYPICAL COIL PERFORMANCE		
Pull in Voltage	AC	DC
10-30V	8	9
207-277V	154	
Drop Out Voltage	AC	DC
10-30V	2	3
208-277V	36	
Voltage	Coil	Current
	AC	DC
10V	25mA	14mA
24V	31mA	16mA
30V	39mA	18mA
208V	19mA	-
277V	25mA	-

CONTACT RATINGS

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

PROGRAMMING THE RESISTIVE **MONITOR**

The resistive monitor is a 0-10 k Ω analog output for monitoring the HOA switch position. Please use the following ranges for the DDC scaling.

Condition	Range (Ω)*	Nominal Values without Wire Resistance $(\Omega)^*$
Line Open	Greater than 8630	n/a
HOA Off	5290 to 8630	6190
HOA Auto	2880 to 5289	3391
HOA On	1200 to 2879	1406
Line Shorted	Less than 1200	n/a

^{*} Ranges based on the presence of 0-1000 Ω of resistance due to wire. Average # of feet for 1000 Ω by wire AWG listed below.

Wire Type (AWG)†	Distance Allowed (ft.)
26	12,189
22	30,864
18	78,296

† All 2-wire runs