

INSTALLATION

!CAUTION!

• This product is not intended for life or safety applications

Severe injury or death can result from electrical shock during contact with high voltage conductors or related equipment. Disconnect and lock-out all power sources during installation. Applications shown are suggested means of installing relays, but it is the responsibility of the installer to ensure that the installation is in compliance with all national and local codes. Installation should be attempted only by individuals familiar with codes, standards, and proper safety procedures for high-voltage installations. Do not rely on status indications of device exclusively to determine of power is present in conductor.

Ensure load and coil source are shut off and locked out before any installation

- Using the threaded nipple connect the V102 to the desired enclosure through a knock out.
- Secure with the conduit nut provided.
- Connect Coil:
 - Choose the coil common lead (White with Yellow Stripe) and connect it to the (-) source termination point.
 - Choose either the low (10-30VAC/DC White w/blue stripe) or high (120VAC White w/black stripe) voltage lead whichever fits your application, and connect it to the (+) source termination point.*
- Connect Relay Contacts:
 - Choose the two solid orange wires (N.O. Contact) and connect them to your switched load.
- Connect Resistive HOA Monitor:
 - Choose the two solid grey wires and take them to a resistive (0-10K Ω) input of the control system.
- Secure your enclosure and reconnect power.
- Program resistive input to the ranges listed (reverse).

*Wires which are not terminated must be isolated or insulated, i.e. wire nut.

Installation Instructions

Victory 102

10A SPST Enclosed Relay with HOA Switch

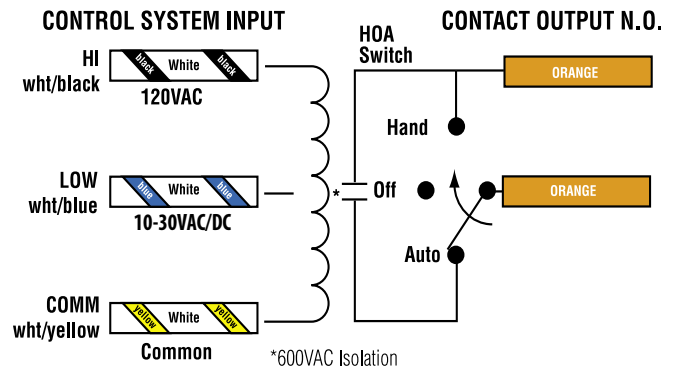
VERIS INDUSTRIES

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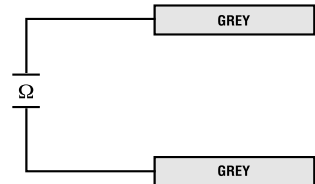


WIRE COLORS



V102 RESISTIVE HOA POSITION MONITOR

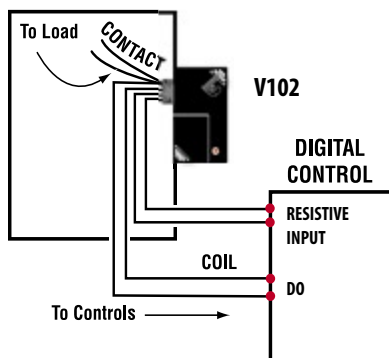
Switch Positions:
 HAND ~ 1.4K Ω
 OFF ~ 6.2K Ω
 AUTO ~ 3.4K Ω
CABLE FAULTS:
 OPEN = Infinite Ω
 SHORT ~ 0 Ω



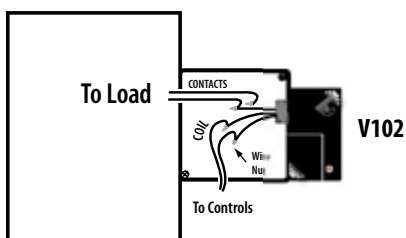
NOTE: See reverse for programming ranges.

WIRING EXAMPLES

Nipple mount directly to a panel



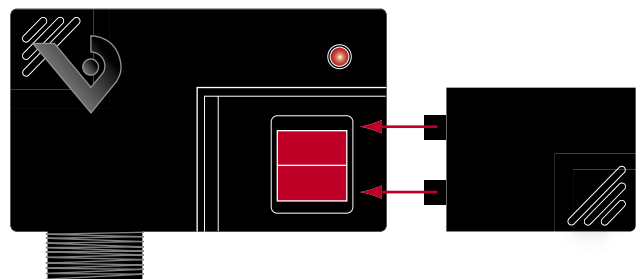
Nipple mount to any 2x or 4x electrical box



*Any unused wires must be isolated, e.g. wire nut.

P/N Z103392-0B

HOA POSITIONS



- HAND** — When the switch is in the up position, the contacts are closed.
- OFF** — When the switch is in the middle position, the contacts are open.
- AUTO** — When the switch is in the down position, the control system actuates the contacts.

SPECIFICATIONS

General

Operating Temp.....	-40° to 55°C
Operating Humidity	0-95% non condensing
Expected Relay Life	10 million cycles min. mechanical
Relay Status.....	LED ON=relay coil energized
Dimensions.....	4.0"(L) x 2.04"(W) x 2.50"(H) 3/4" NPT nipple

Resistive Monitor Maximums

Voltage Max.	13.4VAC/DC
Current Max.	4mA AC/DC

TYPICAL COIL PERFORMANCE

Coil Voltage 10-30VAC/DC, 120VAC			
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(r)@277VAC
Motor.....	1/3 HP@240VAC N.O. 1/6 HP@240VAC N.C.
Gold Flash...	Yes

PROGRAMMING for the RESISTIVE MONITOR

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

Condition	Range*	Nominal Values w/o Wire Resistance*
Line Open	Greater than 8,630	N/A
HOA OFF	5,290 to 8,630	6,190
HOA AUTO	2,880 to 5,289	3,391
HOA ON	1,200 to 2,879	1,406
Line Shorted	Less than 1,200	N/A

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

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

†All 2-wire runs