

# 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 if power is present in conductor.

### Ensure load and coil power sources are shut off and locked out before beginning installation

1. Drill, punch, or use an existing knockout to open a hole in the enclosure suitable for 1/2" trade size conduit at the desired mounting location. Open another hole for the low-voltage wiring in a location which will provide clearance from the H120 and allow for adequate isolation from high voltage wiring, or devices.
2. Thread the wiring and nipple of the H120 through the hole from the outside.
3. While holding the H120 against the enclosure, thread the supplied locknut over the wires from inside the enclosure and screw it onto the nipple to secure the device.
4. Connect Coil:
  - Select the coil common wire (White with Yellow stripe) and connect it to the (-) source termination point.
  - Select the 24VAC/DC (White w/blue stripe) wire and connect it to the (+) source termination point.\*
5. Connect current switch:
  - Connect the grey or brown wires to controller digital input (Not polarity sensitive)
6. Connect Relay Contacts:
  - Select the relay common wire (orange) and connect load to be switched.
  - Select the relay N.O. (orange) and connect to load power source "hot" wire.
7. Secure your enclosure and reconnect power.

\*Wires which are not terminated must be isolated or insulated, e.g. using wire nuts.

# SPECIFICATIONS

## General

Operating Temp.....	-15°C to 60°C (13.8A max.); -15°C to 50°C (20A max.)
Operating Humidity .....	0-95% non condensing
Expected Relay Life .....	10 million cycles mechanical
Relay Status .....	LED ON=energized
Dimensions.....	2.92"(L)X1.80"(W)X1.58" (H)
	1/2" NPT nipple
Current Switch Contact .....	N.O. 100mA@30VAC/DC (H120)
	N.C. 100mA@30VAC/DC (H120NC)
Current Switch Turn On .....	0.1A

TYPICAL COIL PERFORMANCE	
Coil Current (Typical)	Voltage
32mA@.....	24VDC
75mA@.....	24VAC

RELAY CONTACT RATINGS (N.O.)	
Resistive.....	20A(r)*@277VAC, 28VDC (250,000 cycles)
Motor.....	120VAC, 1HP 208VAC, 1HP 250VAC, 2HP 277VAC, 2HP
Ballast.....	277VAC, 20A
Tungsten.....	120VAC, 10A

\*See operating temperature specifications

# Installation Instructions

## H120/H120NC SPST Status Relay

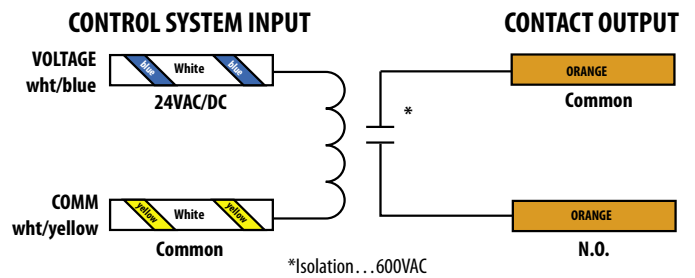
### VERIS INDUSTRIES

PORTLAND, OREGON USA  
(503) 598-4564 FAX (503) 598-4664  
1-800-354-8556

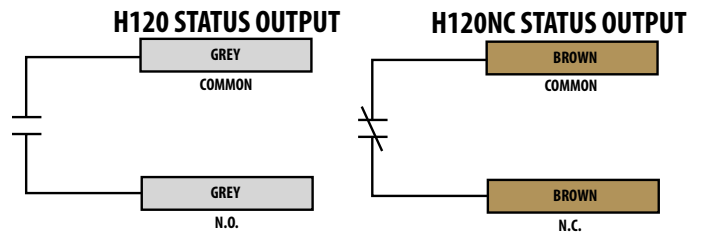
http://www.veris.com email:sales@veris.com



# WIRE COLORS

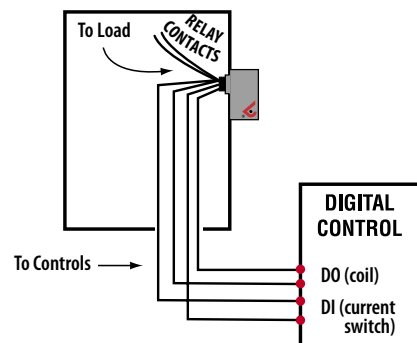


## CURRENT SWITCH WIRE COLOR CODES

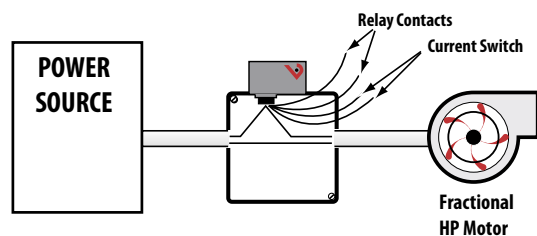


# WIRING EXAMPLES

Nipple Mount to a Panel



Nipple Mount to any 2X or 4X Box



\*Any unused wires must be isolated, e.g. using wire nuts.