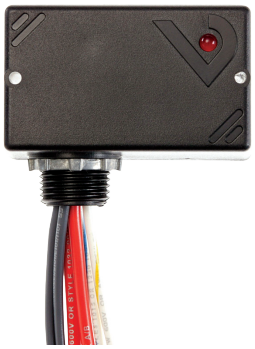
H120/H120NC

SPST Field Mount Status Relay



c UL us LISTED

⚠ 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
- Only install this product on insulated conductors.

Failure to follow these instructions will result in death or serious injury.

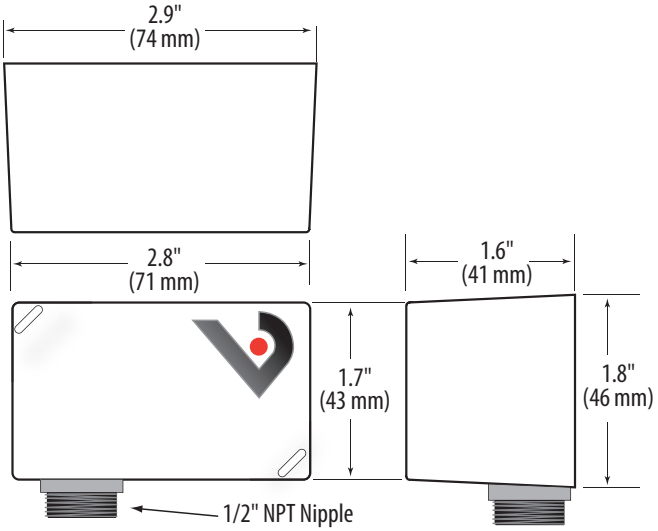
A qualified person is one who has skills and knowledge related to the construction and operation of this electrical equipment and the installation, and has received safety training to recognize and avoid the hazards involved. NEC2009 Article 100

No responsibility is assumed by Veris Industries for any consequences arising out of the use of this material.

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.

DIMENSIONS



SPECIFICATIONS

Sensor Power	Induced from relay coil power
Amperage Range	0.1 to 20 A
Operating Temperature	-15° to 60°C (5° to 140°F) (13.8A max.), -15° to 50°C (5° to 122°F) (20A max.)
Operating Humidity	10-90% RH, non-condensing
Expected Relay Life (mechanical)	10 million cycles
Off State Resistance	Open switch represents 1+ MΩ
On State Resistance	Closed switch represents <30 Ω
Relay Status	LED ON=energized
Wire Specifications:	
Lead Length	14" (356 mm) min.
Gauge	UL1015; Coil: 18AWG; Contacts: 12AWG; Status: 16AWG
Agency Approvals	UL 508 enclosed device listing

Do not use LED status indicators as evidence of applied voltage.

INSTALLATION

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

1. Using the threaded nipple, connect the device to the desired enclosure through a knock out hole.
2. Secure with the conduit nut provided.
3. Connect the coil wires:
   - Connect the coil common lead (white with yellow stripe) to the (-) source termination point.
   - Connect the 24VAC/DC lead (white with blue stripe) to the (+) source termination point.*
4. Connect current switch: connect the grey (H120) or brown (H120NC) wires to the controller digital input (not polarity sensitive).
5. Connect Relay Contacts:
   - Connect the relay common wire (orange) to the switched load.
   - Connect the N.O. contact (orange) to the load power source "hot" wire.
6. Secure the enclosure and reconnect power.

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

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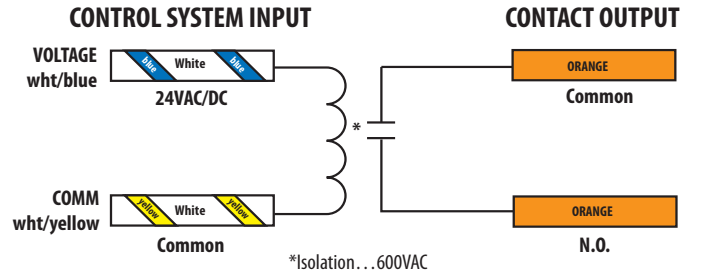
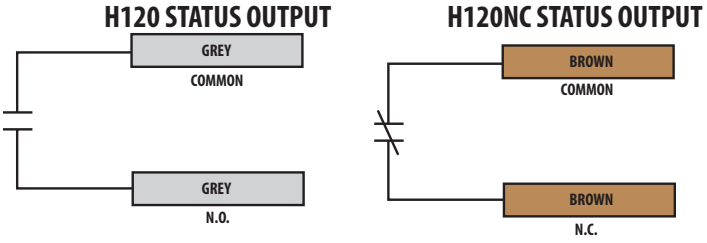
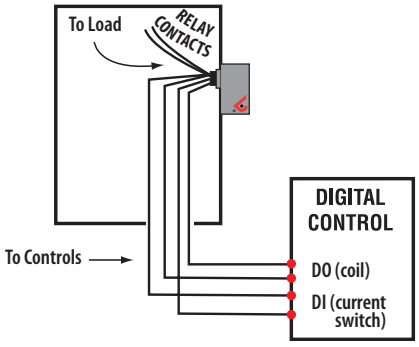
WIRING COLOR CODES



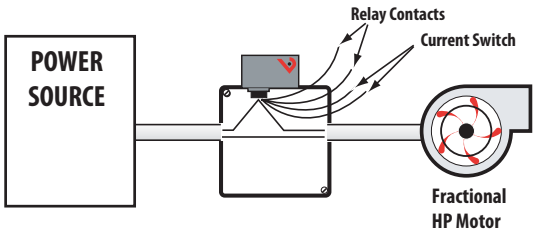


WIRING EXAMPLE

Nipple mount directly to a panel



Nipple mount to 4x electrical box



CONTACT AND COIL SPECIFICATIONS

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

TYPICAL COIL PERFORMANCE

Voltage	Coil Current	
	AC	DC
24V	75mA	32mA

**See operating temperature specification*

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