# INSTALLATION INSTRUCTIONS

## *C-1500-06, Six channel Solid-Core Go/No Digital Outputs*


c UL US LISTED

## DANGER

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

Hazard of electrical shock, explosion, and arc flash

- Follow ALL requirements in NFPA 70E for safe work practices and for Personal Protective Equipment (USA) and other applicable local codes when installing this product
- Only qualified electrical personnel should install this product.
- Read, understand, and follow all instructions thoroughly
- Install only on insulated conductors
- Lock out and tag out all power sources prior to installation. Use properly rated voltage sensing instrument to determine no voltage is present

## WARNING

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

Automated equipment may start without warnng

- Equipment monitored/operated by this device may start without warning. Keep clear of apparatus at all times

### IMPORTANT WARNINGS

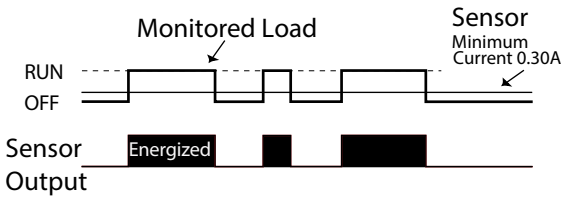
- Only qualified trade installers should install this product
- This product is not intended for life-safety applications
- Do not install in hazardous or classified locations
- The installer is responsible for all applicable codes
- This product must be installed in a suitable electrical enclosure

## INSTALLATION

Disconnect, lock out and tag out all power supplies during installation

1. . Determine mounting location for the sensor near the conductors to be monitored. The sensor should be located AT LEAST 1/2" from any uninsulated conductor.
2. . Drill six 3/32" pilot holes for mounting the sensor board; ensure no drill shavings are present in enclosure. Screw mount using #6 self-tapping screws provided.
3. . Thread one INSULATED CONDUCTOR ONLY, 600VAC MAX to be monitored through each sensor opening.
4. . Reconnect the conductor and torque appropriately.
5. . Wire the outputs of the sensor to control panel digital inputs not to exceed 30VAC/DC wetting voltage. Tighten terminals to 3.5 in-lb.

## OPERATION




*The C-1500-06 outputs change state whenever current above 0.25A is present. This provides "go/no" status on loads that are not subject to mechanical failures.*

**Typical on/off status applications include:**

- *Fan walls*
- *Heater elements*
- *Direct drive fans (e.g. exhaust fans)*
- *Lighting circuits*

**Troubleshooting**

| Symptom | Causes | Remedy |
|---|---|---|
| Sensor output does not change state | Amperage is below sensor minimum threshold | Wrap monitored conductor turns through sensor. |
| | Testing with ohm meter yields incorrect results | Solid state output may show approx. 1 ohm or less. |
| | Incorrect control wiring | Ensure control loop voltage is present |

PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising from such uses.

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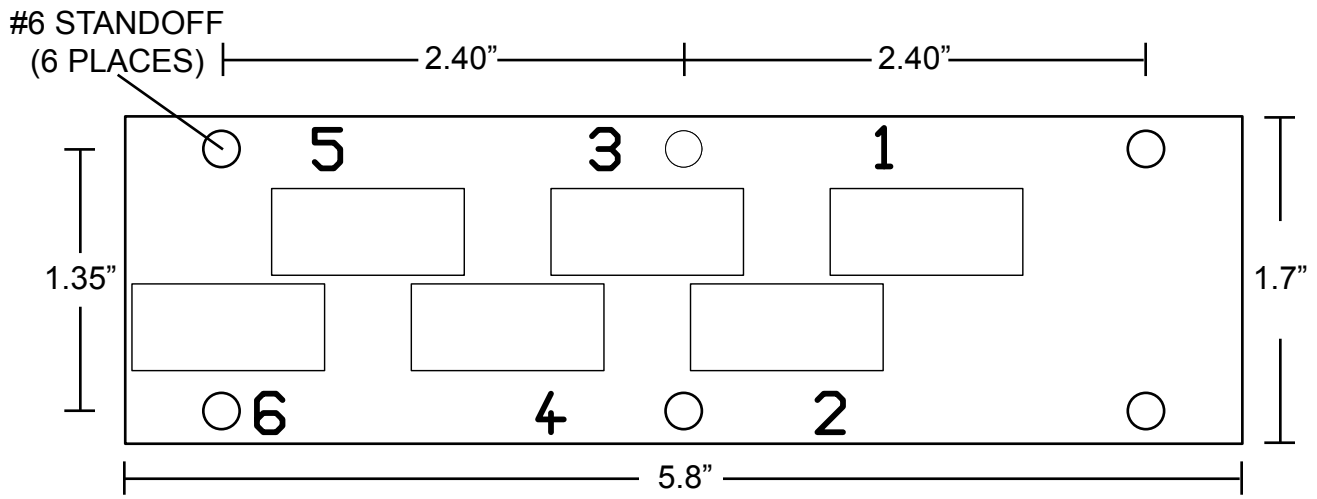
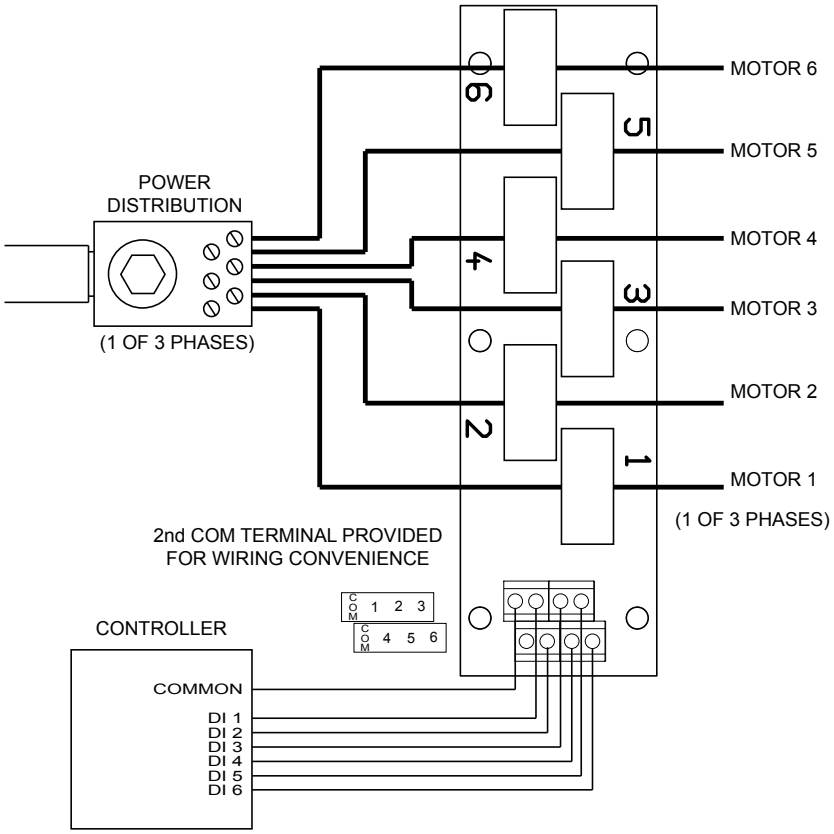
## DIMENSIONS/MOUNTING




## WIRING




| Part Number | C-1500-06 |
|---|---|
| Amperage Range | 0.30A (on)-50A (50A Max. per sensor) |
| Output Type | NO, solid-state FET |
| Output Rating | 1.0A@30VAC/DC Max. |
| Temperature Rating | -15~60 ° C |
| Insulation Class | 600V RMS. For use on insulated conductors only!<br>Use minimum 75 ° C insulated conductor |
| Sensor Power | Induced |
| Frequency Range | 50/60Hz |
| Dimensions ( LxWxH) | 5.8″l x 1.7″w x 1.45″h |
| Sensor Aperture | 0.38″ |

1. Maximum surrounding air ambient, 60 ° C. For use in Pollution Degree 2 Environment.