INSTALLATION INSTRUCTIONS

C-1550, Fan Wall Sensor Solid-Core Go/No Digital Output

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

SENVA

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 four 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 INSULATED CONDUCTOR ONLY, 600VAC MAX to be monitored through each sensor opening. Each sensor should have half (or half +/- one) of the conductors to be monitored.
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

Overview:

The C-1550 provides load-side "go/no" status for fan walls up to 18 motors.

Learning:

On first-time start up or button press, unit will learn normal motor operating current.

Status monitoring:

Motor currents are continuously monitored regardless of operating frequency. Output will open (alarm) on any motor failure.

LED Indicators:

Green Solid	*Ready*
Green slow blink	*Current present, monitoring active*
Green fast blink	*Learning in process*
Red Solid	*Alarm, output open, motor failure detected*

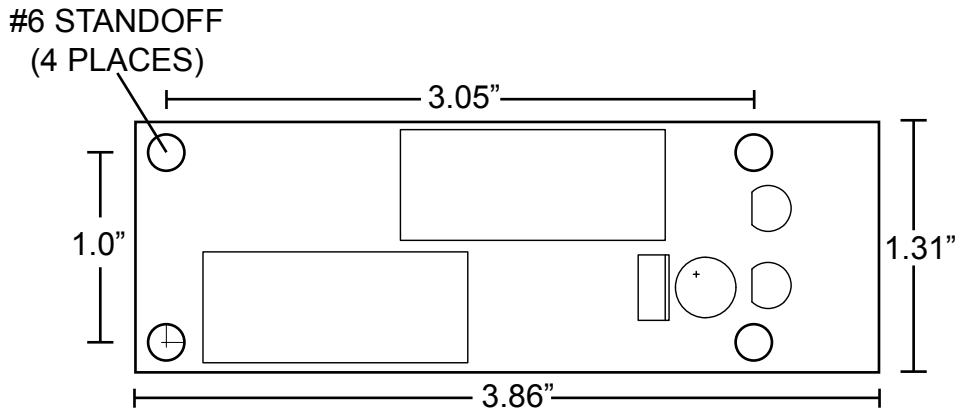
Troubleshooting

Symptom	Causes	Remedy
Sensor output does not change state	Wrong current learned	Press button to re-learn.
	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

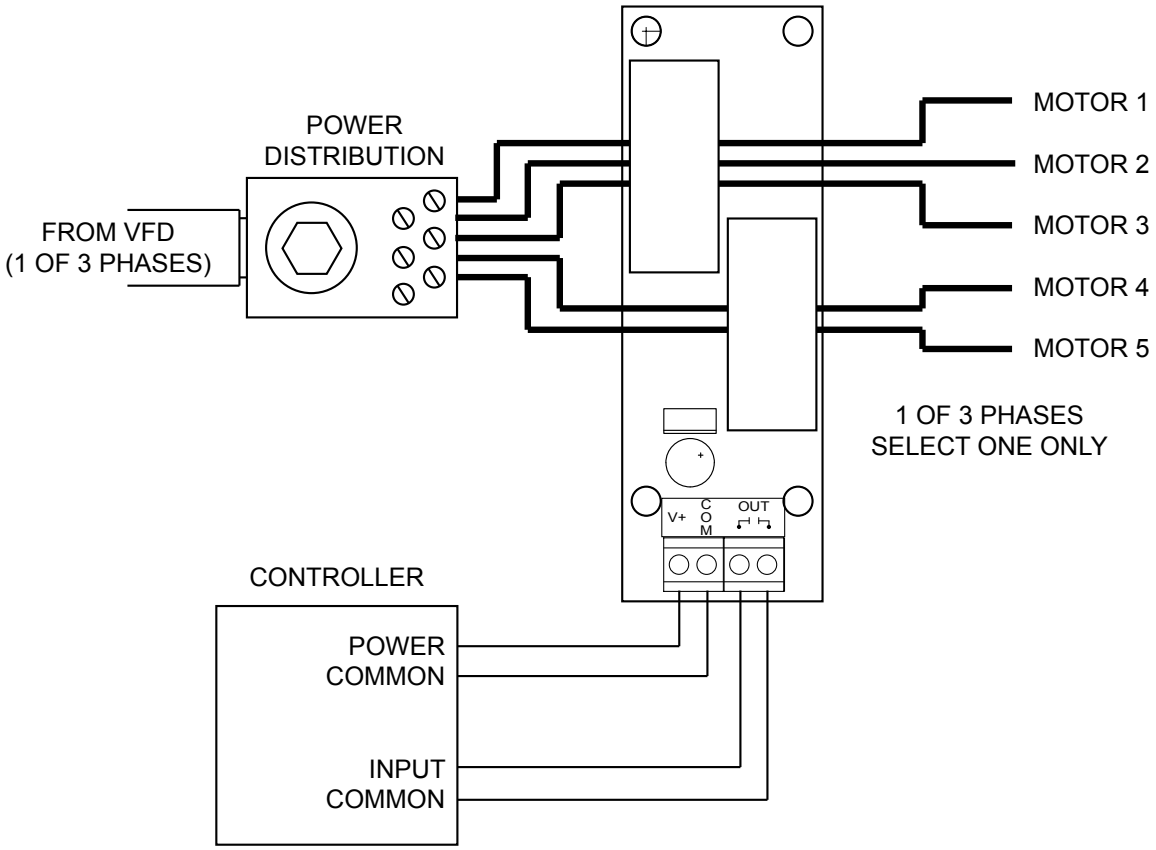
PRODUCT APPLICATION LIMITATION:

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.

DIMENSIONS/MOUNTING



WIRING EXAMPLE



Part Number	C-1550
Power Supply[1]	12-24VDC/24VAC, 50mA max
Monitored Amperage Range	0.1A-50A (50A Max. per CT)
Output Type	NO, solid-state FET
Output Rating	0.1A@30VAC/DC Max.
Temperature Rating[2]	-15~60 ° C
Insulation Class	600V RMS. For use on insulated conductors only! Use minimum 75 ° C insulated conductor
Frequency Range	15-60Hz
Dimensions (LxWxH)	3.86” l x 1.31” w x 1.85” h
Sensor Aperture	0.58”

1. Low Voltage Limited Energy or Class 2 power supply only.
2. Maximum surrounding air ambient, 60 ° C. For use in Pollution Degree 2 Environment.