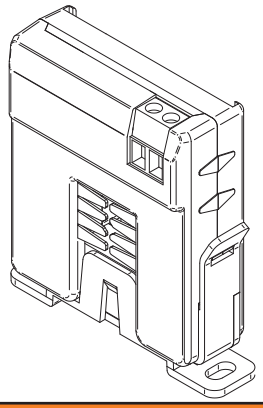
INSTALLATION INSTRUCTIONS

C-2300HV, Go/No Mini Split-Core Digital Output



3PZS
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 warning

- 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

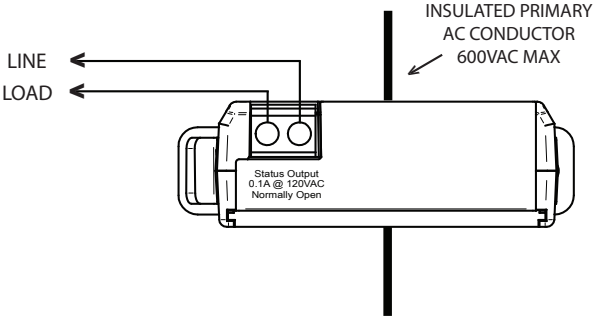
INSTALLATION

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

1. Determine mounting location for the sensor near the conductor to be monitored. The sensor should be located AT LEAST 1/2" from any uninsulated conductor.
2. Sensor features a flexible iris which allows the sensor to hang on the conductor if local codes permit. A bracket is included for screw mounting or attaching to DIN rail. For screw mounting, drill two 3/32" pilot holes using the bracket as a template; ensure no drill shavings are present in enclosure. Attach bracket with screws provided.
3. Clamp sensor around INSULATED CONDUCTOR ONLY, 600VAC MAX to be monitored.
4. Snap the sensor into the mounting bracket.
5. Wire the output of the sensor in series with a contactor coil not to exceed 120VAC @ 0.2 Amp. Tighten terminals to 3.5 in-lb.

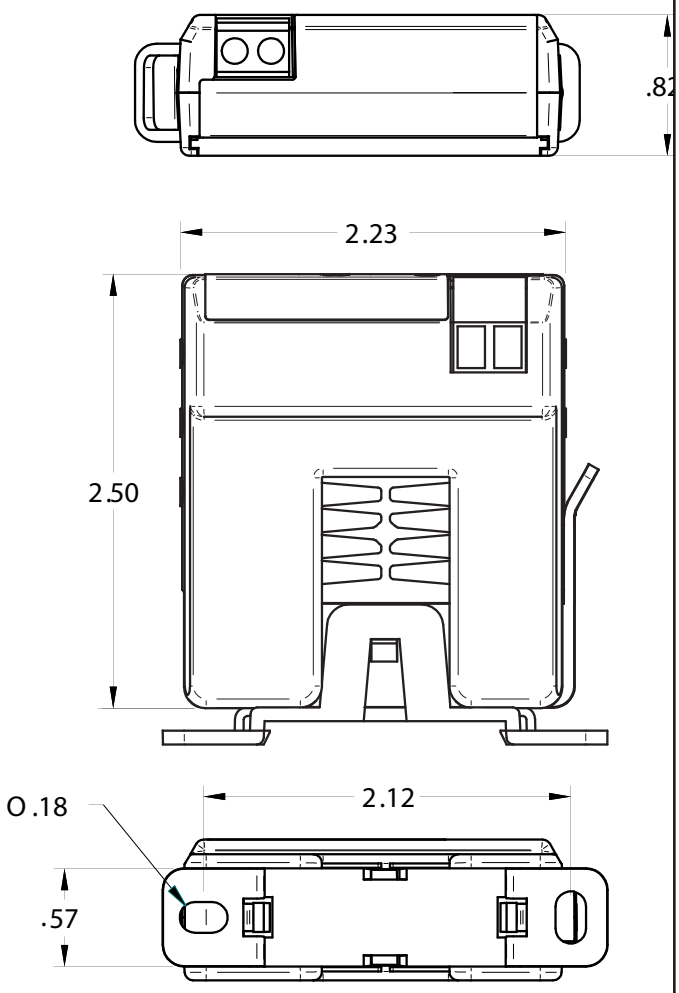
WIRING EXAMPLES

NOTE: Device is NOT polarity sensitive.

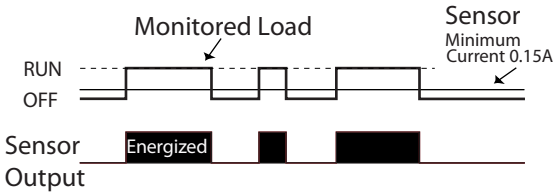


PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising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

DIMENSIONS



OPERATION



The C-2300HV output changes state whenever current above 0.15A is present. This provides "go/no" status on loads that are not subject to mechanical failures.

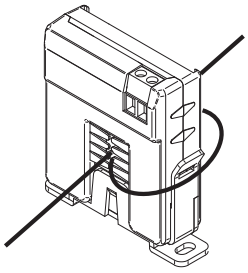
Typical on/off status applications include:

- *Lighting circuits*
- *Heater elements*
- *Direct drive fans (e.g. exhaust fans)*
- *Process motors*

TECH TIPS

On low current loads, wrap sensor multiple times to increase sensitivity

CAUTION: Do not exceed sensor maximum current. The current detected by the sensor will increase 1X with each wrap.

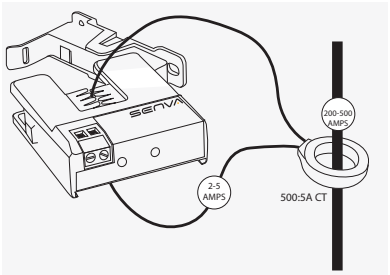


To monitor loads greater than the current sensor maximum rating

Use a properly rated 5A CT as shown below

CAUTION!

5A CTs can present hazardous voltages. Install CTs in accordance with manufacturers instructions. Terminate the CT secondary wiring before energizing primary conductor.



Troubleshooting		
Symptom	**Causes**	**Remedy**
Sensor output does not change state	Amperage is below sensor minimum threshold	Wrap monitored conductor turns through sensor. See Tech Tip
	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

Maximum surrounding air ambient, 60 ° C.

For use in Pollution Degree 2 Environment.

Part Number	C-2300HV
Amperage Range	0.35A (on)~100A (200A Max)
Output Type	NO, solid-state FET
Output Rating	0.2A (200mA) @120VAC Max
Temperature Rating	-15~60 ° C
Insulation Class	600V RMS. For use on insulated conductors only! Use minimum 75 ° C insulated conductor
Sensor Power	Induced
Frequency Range	50/60Hz
Dimensions (LxWxH)	2.94" x 2.23" x 0.82" (1.4" H with optional relay module)
Sensor Aperture	0.75"

INSTALLATION INSTRUCTIONS

C-2300, Go/No Mini Split-Core Digital Output

3PZS
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

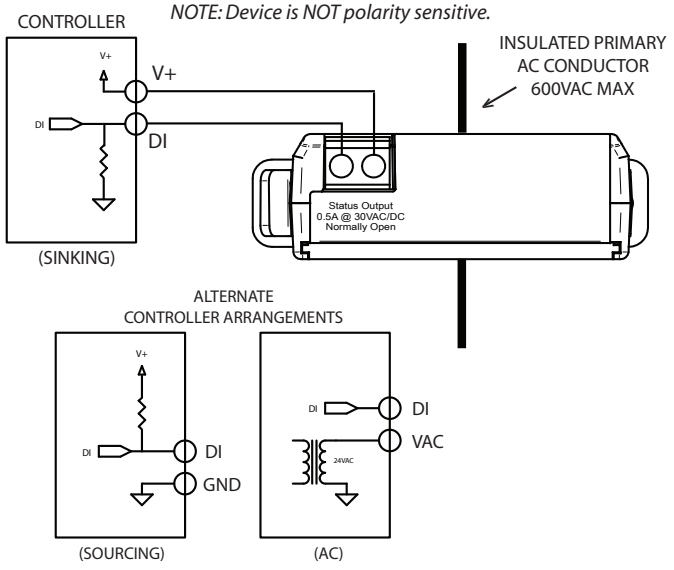
- Only qualified trade installers should install this product
- This product is not intended for life-safety applications
- Do not install in hazardous or classified locations
- The installer is responsible for all applicable codes
- This product must be installed in a suitable electrical enclosure

INSTALLATION

1. Determine mounting location for the sensor near the conductor to be monitored. The sensor should be located AT LEAST 1/2" from any uninsulated conductor.
2. Sensor features a flexible iris which allows the sensor to hang on the conductor if local codes permit. A bracket is included for screw mounting or attaching to DIN rail. For screw mounting, drill two 3/32" pilot holes using the bracket as a template; ensure no drill shavings are present in enclosure. Attach bracket with screws provided.
3. Clamp sensor around INSULATED CONDUCTOR ONLY, 600VAC MAX to be monitored.
4. Snap the sensor into the mounting bracket.
5. Wire the output of the sensor to a control panel digital input loop not to exceed 30VAC/DC wetting voltage. Tighten terminals to 3.5 in-lb.

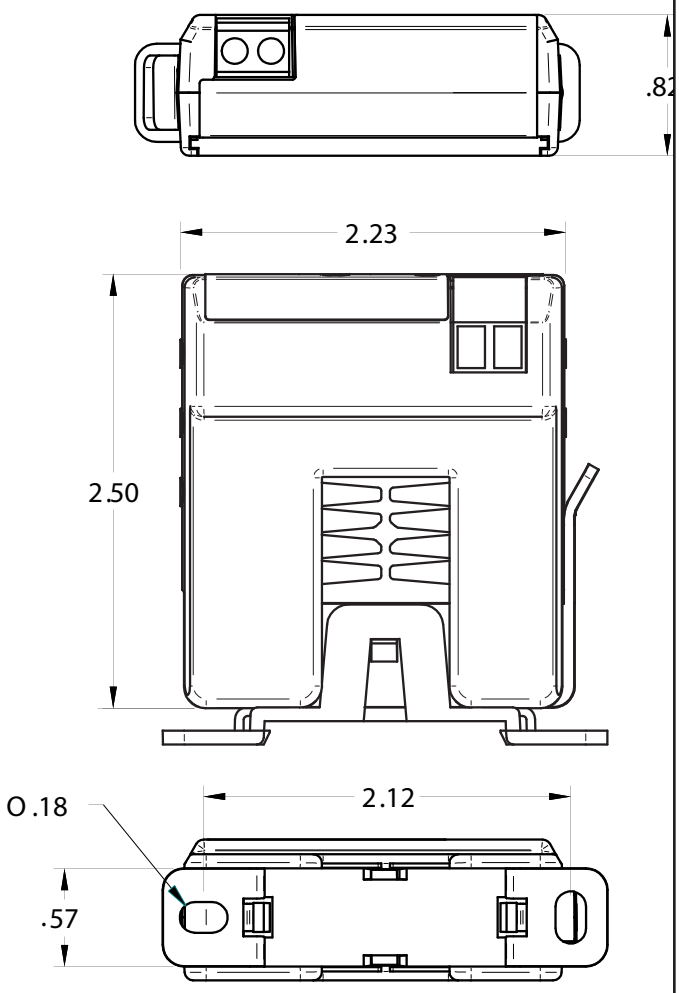
Disconnect, lock out and tag out all power supplies during installation

WIRING EXAMPLES

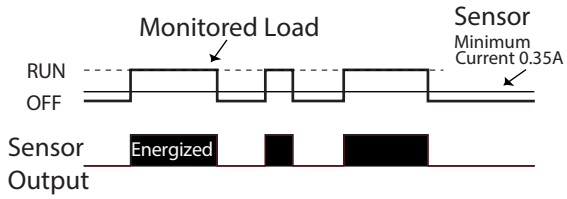


PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising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

DIMENSIONS



OPERATION



The C-2300 output changes state whenever current above 0.35A is present. This provides "go/no" status on loads that are not subject to mechanical failures.

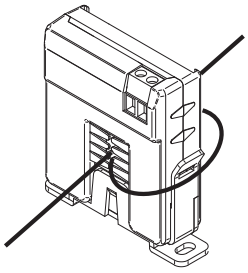
Typical on/off status applications include:

- *Lighting circuits*
- *Heater elements*
- *Direct drive fans (e.g. exhaust fans)*
- *Process motors*

TECH TIPS

On low current loads, wrap sensor multiple times to increase sensitivity

CAUTION: Do not exceed sensor maximum current. The current detected by the sensor will increase 1X with each wrap.

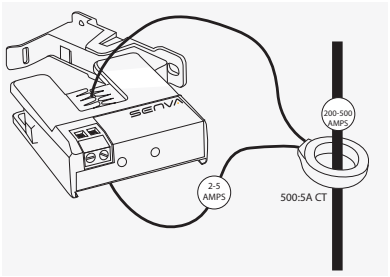


To monitor loads greater than the current sensor maximum rating

Use a properly rated 5A CT as shown below

CAUTION!

5A CTs can present hazardous voltages. Install CTs in accordance with manufacturers instructions. Terminate the CT secondary wiring before energizing primary conductor.



Troubleshooting		
Symptom	**Causes**	**Remedy**
Sensor output does not change state	Amperage is below sensor minimum threshold	Wrap monitored conductor turns through sensor. See Tech Tip
	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

Maximum surrounding air ambient, 60 ° C.

For use in Pollution Degree 2 Environment.

Part Number	C-2300
Amperage Range	0.35A (on)~100A (200A Max)
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! Use minimum 75 ° C insulated conductor
Sensor Power	Induced
Frequency Range	50/60Hz
Dimensions (LxWxH)	2.94" x 2.23" x 0.82" (1.4" H with optional relay module)
Sensor Aperture	0.75"

INSTALLATION INSTRUCTIONS

C-1200, Go/No Mini Solid-Core Digital Output

3PZS
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 warning

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

IMPORTANT WARNINGS

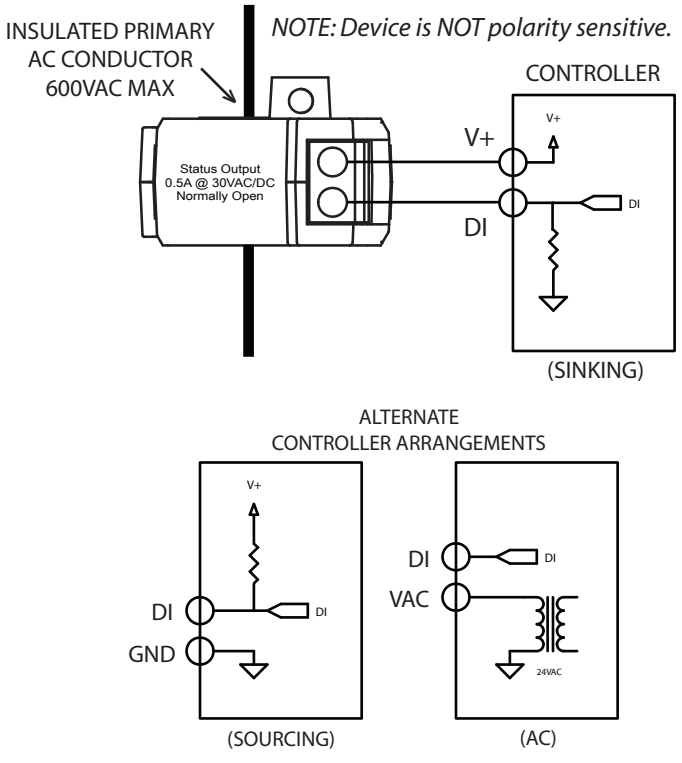
- Only qualified trade installers should install this product
- This product is not intended for life-safety applications
- Do not install in hazardous or classified locations
- The installer is responsible for all applicable codes
- This product must be installed in a suitable electrical enclosure

INSTALLATION

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

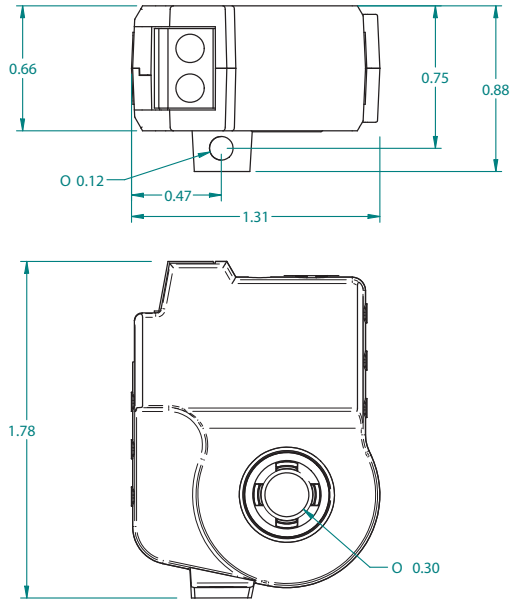
1. Determine mounting location for the sensor near the conductor to be monitored. The sensor should be located AT LEAST 1/2" from any uninsulated conductor.
2. Drill a single 3/32" pilot hole for mounting the sensor; ensure no drill shavings are present in enclosure.
3. Thread INSULATED CONDUCTOR ONLY, 600VAC MAX to be monitored through the iris of the sensor.
4. Reconnect the conductor and torque appropriately.
5. Screw mount the sensor to the enclosure.
6. Wire the output of the sensor to a control panel digital input loop not to exceed 30VAC/DC wetting voltage. Tighten terminals to 3.5 in-lb.

WIRING EXAMPLES

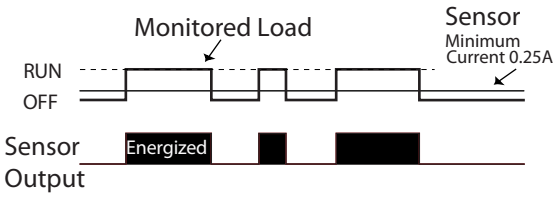


PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising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

DIMENSIONS



OPERATION



The C-1200 output changes state whenever current above 0.25A is present. This provides "go/no" status on loads that are not subject to mechanical failures.

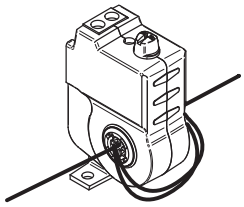
Typical on/off status applications include:

- *Lighting circuits*
- *Heater elements*
- *Direct drive fans (e.g. exhaust fans)*
- *Process motors*

TECH TIPS

On low current loads, wrap sensor multiple times to increase sensitivity

CAUTION: Do not exceed sensor maximum current. The current detected by the sensor will increase 1X with each wrap.

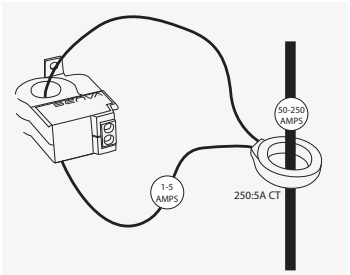


To monitor loads greater than the current sensor maximum rating

Use a properly rated 5A CT as shown below

CAUTION!

5A CTs can present hazardous voltages. Install CTs in accordance with manufacturers instructions. Terminate the CT secondary wiring before energizing primary conductor.



Troubleshooting		
Symptom	**Causes**	**Remedy**
Sensor output does not change state	Amperage is below sensor minimum threshold	Wrap monitored conductor turns through sensor. See Tech Tip
	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

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

Part Number	C-1200
Amperage Range	0.25A (on)-50A (50A Max.)
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! Use minimum 75 ° C insulated conductor
Sensor Power	Induced
Frequency Range	50/60Hz
Dimensions (LxWxH)	1.78" x 1.32" x 0.66"
Sensor Aperture	0.30"

INSTALLATION INSTRUCTIONS

C-1300, Go/No Solid-Core Digital Output

3PZS
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 warning

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

IMPORTANT WARNINGS

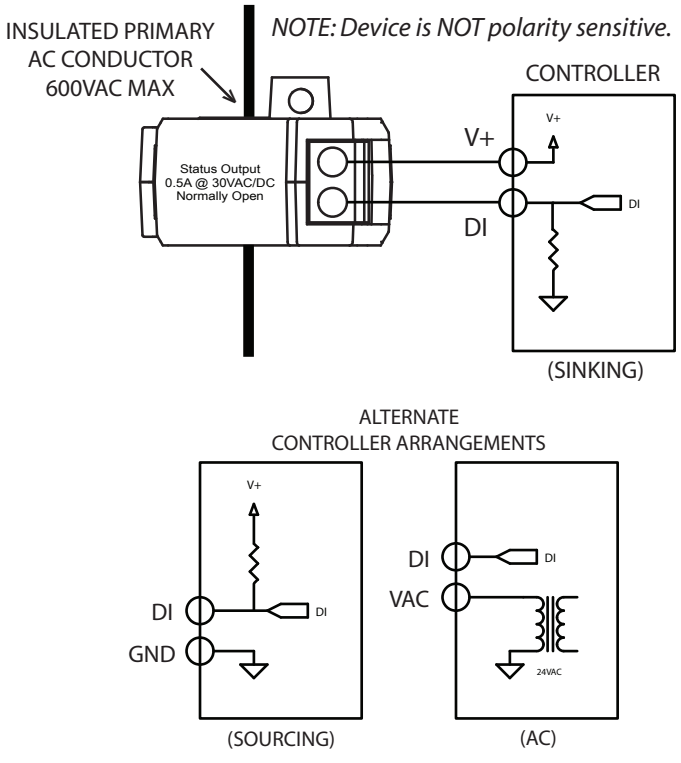
- Only qualified trade installers should install this product
- This product is not intended for life-safety applications
- Do not install in hazardous or classified locations
- The installer is responsible for all applicable codes
- This product must be installed in a suitable electrical enclosure

INSTALLATION

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

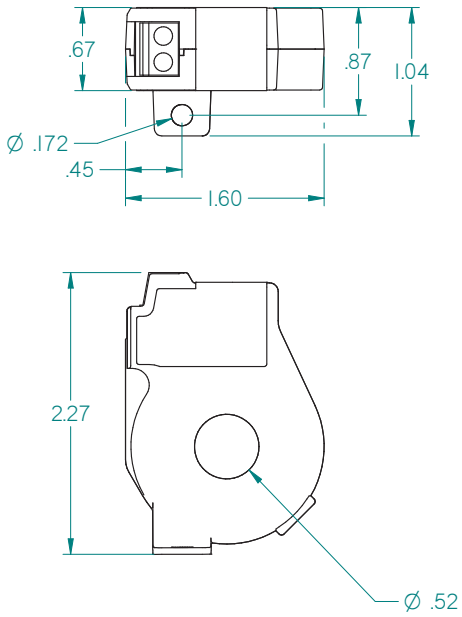
1. Determine mounting location for the sensor near the conductor to be monitored. The sensor should be located AT LEAST 1/2" from any uninsulated conductor.
2. Drill a single 3/32" pilot hole for mounting the sensor; ensure no drill shavings are present in enclosure.
3. Thread INSULATED CONDUCTOR ONLY, 600VAC MAX to be monitored through the iris of the sensor.
4. Reconnect the conductor and torque appropriately.
5. Screw mount the sensor to the enclosure.
6. Wire the output of the sensor to a control panel digital input loop not to exceed 30VAC/DC wetting voltage. Tighten terminals to 3.5 in-lb.

WIRING EXAMPLES

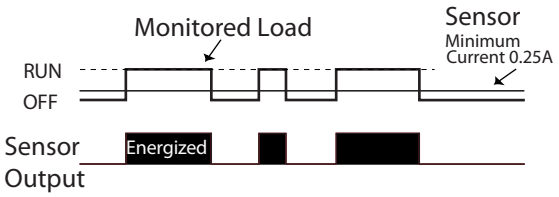


PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising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

DIMENSIONS



OPERATION



The C-1300 output changes state whenever current above 0.25A is present. This provides "go/no" status on loads that are not subject to mechanical failures.

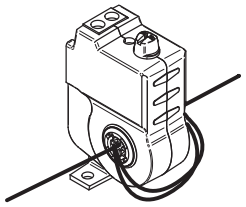
Typical on/off status applications include:

- *Lighting circuits*
- *Heater elements*
- *Direct drive fans (e.g. exhaust fans)*
- *Process motors*

TECH TIPS

On low current loads, wrap sensor multiple times to increase sensitivity

CAUTION: Do not exceed sensor maximum current. The current detected by the sensor will increase 1X with each wrap.

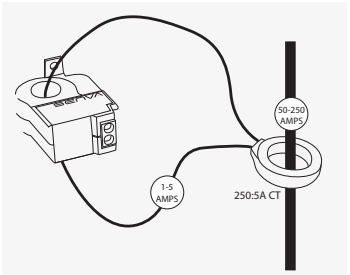


To monitor loads greater than the current sensor maximum rating

Use a properly rated 5A CT as shown below

CAUTION!

5A CTs can present hazardous voltages. Install CTs in accordance with manufacturers instructions. Terminate the CT secondary wiring before energizing primary conductor.



Troubleshooting		
Symptom	**Causes**	**Remedy**
Sensor output does not change state	Amperage is below sensor minimum threshold	Wrap monitored conductor turns through sensor. See Tech Tip
	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

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

Part Number	C-1300
Amperage Range	0.25A (on)-50A (50A Max.)
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! Use minimum 75 ° C insulated conductor
Sensor Power	Induced
Frequency Range	50/60Hz
Dimensions (LxWxH)	2.27" x 1.60" x 1.04"
Sensor Aperture	0.52"

INSTALLATION INSTRUCTIONS

C-2200, Go/No Tiny Split-Core Digital Output

3PZS
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

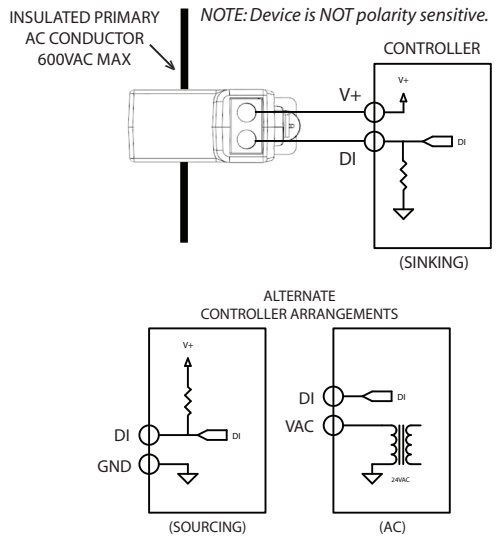
- Only qualified trade installers should install this product
- This product is not intended for life-safety applications
- Do not install in hazardous or classified locations
- The installer is responsible for all applicable codes
- This product must be installed in a suitable electrical enclosure

INSTALLATION

1. Determine mounting location for the sensor near the conductor to be monitored. The sensor should be located AT LEAST 1/2" from any uninsulated conductor.
2. Sensor features a flexible iris which allows the sensor to hang on the conductor if local codes permit. A mounting tab is included for screw mounting.
3. Clamp sensor around INSULATED CONDUCTOR ONLY, 600VAC MAX to be monitored.
4. Wire the output of the sensor to a control panel digital input loop not to exceed 30VAC/DC wetting voltage. Tighten terminals to 3.5 in-lb.

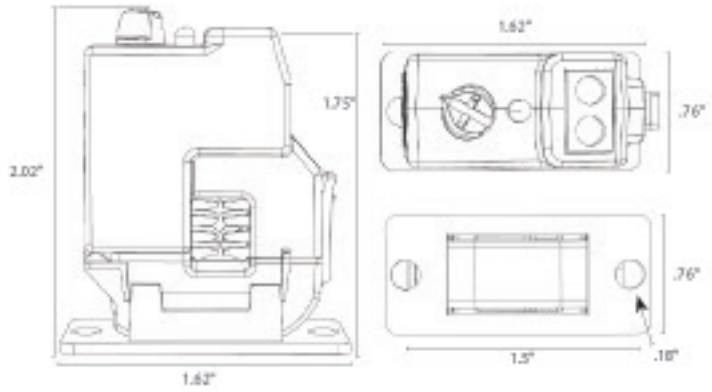
Disconnect, lock out and tag out all power supplies during installation

WIRING EXAMPLES

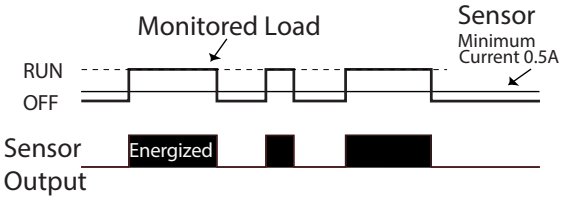


PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising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

DIMENSIONS



OPERATION



The C-2200 output changes state whenever current above 0.5A is present. This provides "go/no" status on loads that are not subject to mechanical failures.

Typical on/off status applications include:

- *Lighting circuits*
- *Heater elements*
- *Direct drive fans (e.g. exhaust fans)*
- *Process motors*

Specification	C-2200
Amperage Range	0.5A (on)-50A (50A Max)
Output Type	NO, solid-state FET
Output Rating	1.0A@30VAC/DC Max.
Temperature Rating	-15 to 60 ° C
Insulation Class	600V RMS. For use on insulated conductors only! Use minimum 75 ° C insulated conductor
Sensor Power	Induced
Frequency Range	50/60Hz
Dimensions (LxWxH)	1.9" x 1.35" x 0.6" (2.0" x 1.6" x 0.6" with bracket)
Sensor Aperture	0.375"

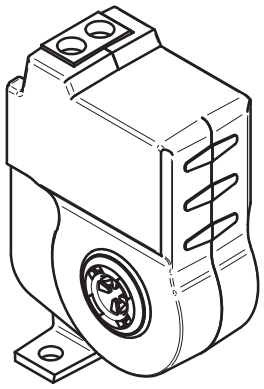
Maximum surrounding air ambient, 60 ° C.

For use in Pollution Degree 2 Environment.

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

INSTALLATION INSTRUCTIONS

C-1200HV, Go/No Mini Solid-Core Digital Output



3PZS
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

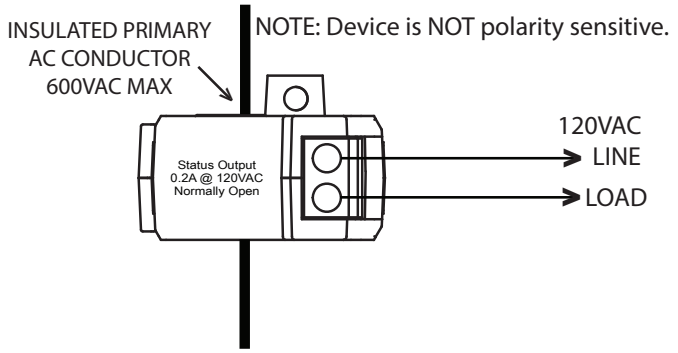
- Only qualified trade installers should install this product
- This product is not intended for life-safety applications
- Do not install in hazardous or classified locations
- The installer is responsible for all applicable codes
- This product must be installed in a suitable electrical enclosure

INSTALLATION

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

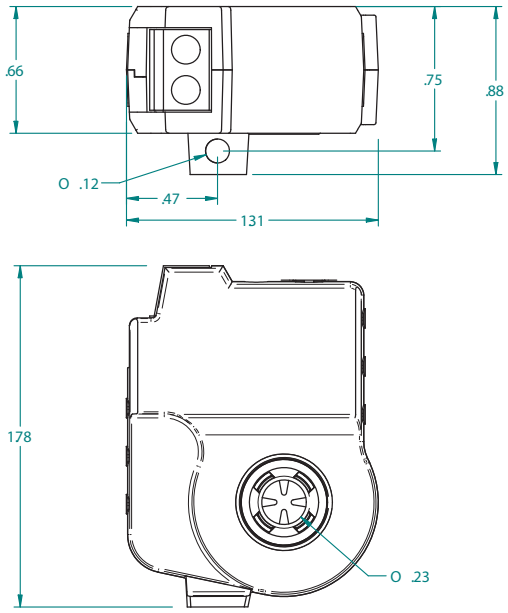
1. . Determine mounting location for the sensor near the conductor to be monitored. The sensor should be located AT LEAST 1/2" from any uninsulated conductor.
2. . Drill a single 3/32" pilot hole for mounting the sensor; ensure no drill shavings are present in enclosure.
3. . Thread INSULATED CONDUCTOR ONLY, 600VAC MAX to be monitored through the iris of the sensor.
4. . Reconnect the conductor and torque appropriately.
5. . Screw mount the sensor to the enclosure.
6. . Wire the output of the sensor in series with a contactor coil not to exceed 120VAC @ 0.2 Amp. Tighten terminals to 3.5 in-lb.

WIRING EXAMPLES

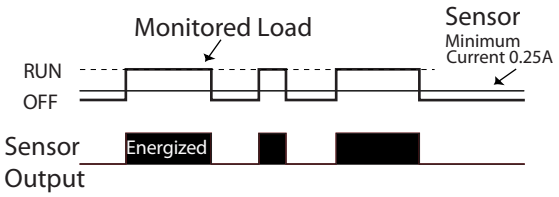


PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising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

DIMENSIONS



OPERATION



The C-1200HV output changes state whenever current above 0.25A is present. This provides "go/no" status on loads that are not subject to mechanical failures.

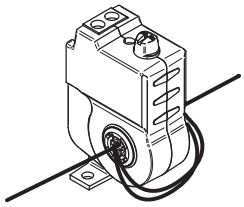
Typical on/off status applications include:

- *Lighting circuits*
- *Heater elements*
- *Direct drive fans (e.g. exhaust fans)*
- *Process motors*

TECH TIPS

On low current loads, wrap sensor multiple times to increase sensitivity

CAUTION: Do not exceed sensor maximum current. The current detected by the sensor will increase 1X with each wrap.

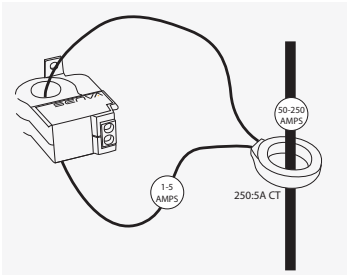


To monitor loads greater than the current sensor maximum rating

Use a properly rated 5A CT as shown below

CAUTION!

5A CTs can present hazardous voltages. Install CTs in accordance with manufacturers instructions. Terminate the CT secondary wiring before energizing primary conductor.



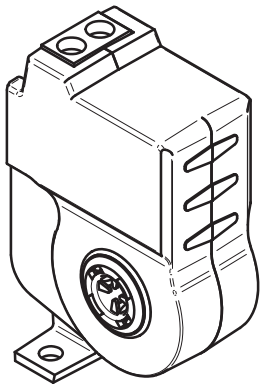
Troubleshooting		
Symptom	**Causes**	**Remedy**
Sensor output does not change state	Amperage is below sensor minimum threshold	Wrap monitored conductor turns through sensor. See Tech Tip
	Testing with ohm meter yields incorrect results	Solid state output may show approx. 1 ohm or less.
	Incorrect control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

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

Part Number	C-1200HV
Amperage Range	0.25A (on)~50A (50A Max.)
Output Type	NO, solid-state FET
Output Rating	0.2A (200mA) @120VAC Max.
Temperature Rating	-15~60 ° C
Insulation Class	600V RMS. For use on insulated conductors only! Use minimum 75 ° C insulated conductor
Sensor Power	Induced
Frequency Range	50/60Hz
Dimensions (LxWxH)	1.78" x 1.32" x 0.66"
Sensor Aperture	0.30"

INSTALLATION INSTRUCTIONS

C-1200HV-240, Go/No Mini Solid-Core Digital Output, 240VAC



CE

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 warning

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

IMPORTANT WARNINGS

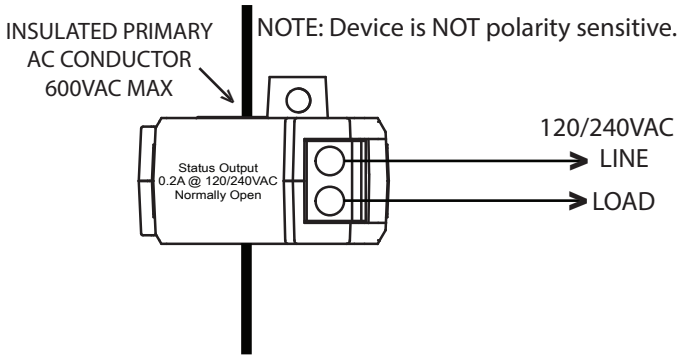
- Only qualified trade installers should install this product
- This product is not intended for life-safety applications
- Do not install in hazardous or classified locations
- The installer is responsible for all applicable codes
- This product must be installed in a suitable electrical enclosure

INSTALLATION

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

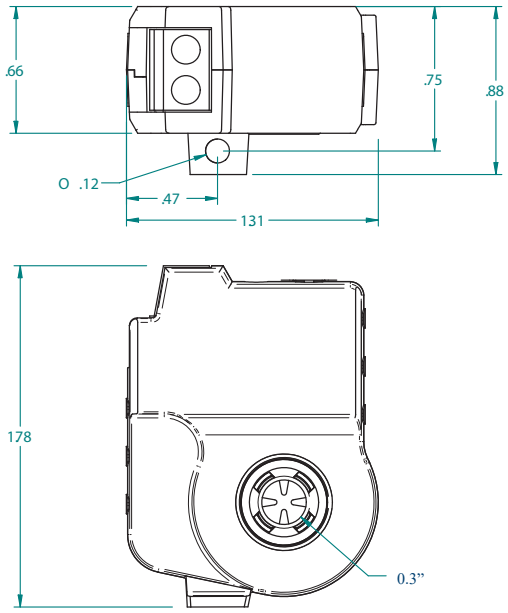
1. Determine mounting location for the sensor near the conductor to be monitored. The sensor should be located AT LEAST 1/2" from any uninsulated conductor.
2. Drill a single 3/32" pilot hole for mounting the sensor; ensure no drill shavings are present in enclosure.
3. Thread INSULATED CONDUCTOR ONLY, 600VAC MAX to be monitored through the iris of the sensor.
4. Reconnect the conductor and torque appropriately.
5. Screw mount the sensor to the enclosure.
6. Wire the output of the sensor in series with a contactor coil not to exceed 240VAC @ 1.0 Amp. Tighten terminals to 3.5 in-lb.

WIRING EXAMPLES

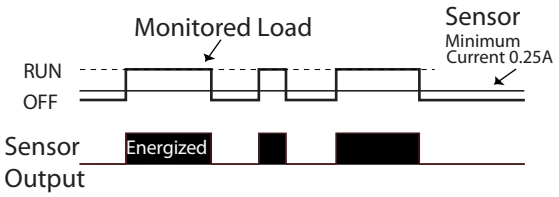


PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising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

DIMENSIONS



OPERATION



The C-1200HV-240 output changes state whenever current above 0.25A is present. This provides "go/no" status on loads that are not subject to mechanical failures.

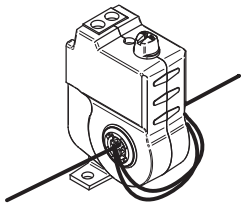
Typical on/off status applications include:

- *Lighting circuits*
- *Heater elements*
- *Direct drive fans (e.g. exhaust fans)*
- *Process motors*

TECH TIPS

On low current loads, wrap sensor multiple times to increase sensitivity

CAUTION: Do not exceed sensor maximum current. The current detected by the sensor will increase 1X with each wrap.

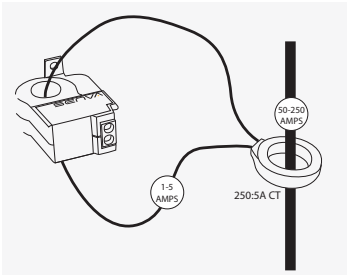


To monitor loads greater than the current sensor maximum rating

Use a properly rated 5A CT as shown below

CAUTION!

5A CTs can present hazardous voltages. Install CTs in accordance with manufacturers instructions. Terminate the CT secondary wiring before energizing primary conductor.



Troubleshooting		
Symptom	**Causes**	**Remedy**
Sensor output does not change state	Amperage is below sensor minimum threshold	Wrap monitored conductor turns through sensor. See Tech Tip
	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

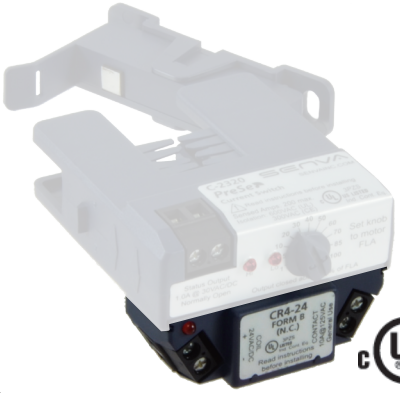
Maximum surrounding air ambient, 60 ° C. For use in Pollution Degree 2 Environment.

Part Number	C-1200HV-240
Amperage Range	0.35A (on)~50A (50A Max.)
Output Type	NO, solid-state FET
Output Rating	1.0A Inductive(AC3)@120/240VAC Max.
Temperature Rating	-15~60 ° C
Insulation Class	600V RMS. For use on insulated conductors only! Use minimum 75 ° C insulated conductor
Sensor Power	Induced
Frequency Range	50/60Hz
Dimensions (LxWxH)	1.78" x 1.32" x 0.66"
Sensor Aperture	0.30"

Revised 12/3/2024 Document# 152-0302-0E

INSTALLATION INSTRUCTIONS

CR4-24V Relay Module, 1 x N.C. Fits C23xx series



3PZS
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

PRODUCT APPLICATION LIMITATION:

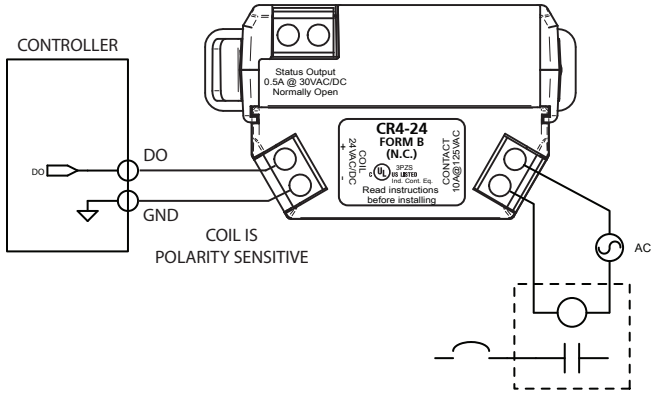
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising from such uses.

INSTALLATION

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

1. Slide relay module onto any C23xx series mini split-core sensor.
2. Wire relay module to control panel and to motor starter. Tighten terminals to 3.5 in-lb.
3. Observe polarity of relay coil terminals.

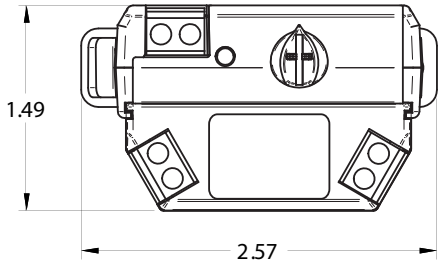
WIRING EXAMPLES



OPERATION

The CR4 command relay module slides onto any C23xx series sensor, providing a convenient means of controlling line-voltage devices such as motor starters from low-voltage control signals.

DIMENSIONS



Troubleshooting		
Symptom	**Causes**	**Remedy**
LED not lit, relay not energized	Coil wiring incorrect	Check polarity
	Coil voltage too low	Check coil voltage

Maximum surrounding air ambient, 60 ° C.

For use in Pollution Degree 2 Environment.

Part Number	CR4-12	CR4-24
Coil	9-12VDC, 30mA nom.	24VAC/DC, 30mA nom.
Contact Arrangement	N.C. (1 form B)	
Contact Rating	10A@125VAC (UL C300 RATED)	
Temperature Rating	-15~60 ° C	
Dimensions (LxWxH)	2.94" x 2.23" x 0.82" (1.4" H with optional relay module)	

INSTALLATION INSTRUCTIONS

CR4-12V Relay Module, 1 x N.C. Fits C23xx series

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

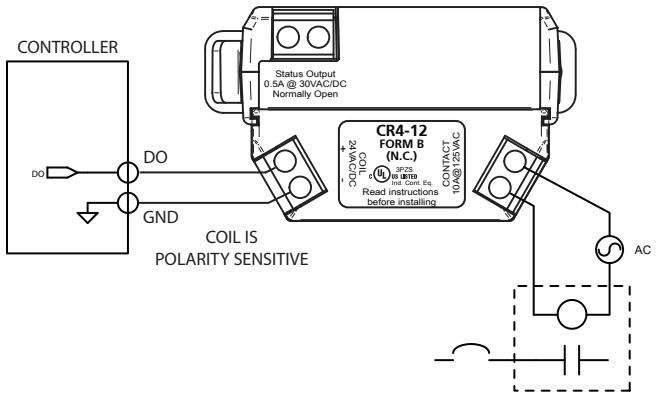
PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising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

INSTALLATION

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

1. Slide relay module onto any C23xx series mini split-core sensor.
2. Wire relay module to control panel and to motor starter.
3. Observe polarity of relay coil terminals. Tighten terminals to 3.5 in-lb.

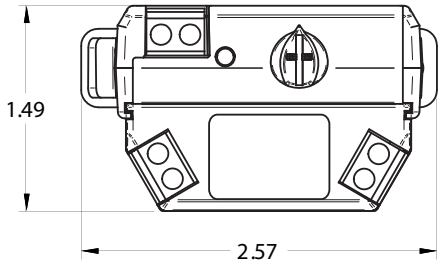
WIRING EXAMPLES



OPERATION

The CR4 command relay module slides onto any C23xx series sensor, providing a convenient means of controlling line-voltage devices such as motor starters from low-voltage control signals.

DIMENSIONS



Troubleshooting

Symptom	Causes	Remedy
Relay not energized	Coil wiring incorrect	Check polarity
	Coil voltage too low	Check coil voltage

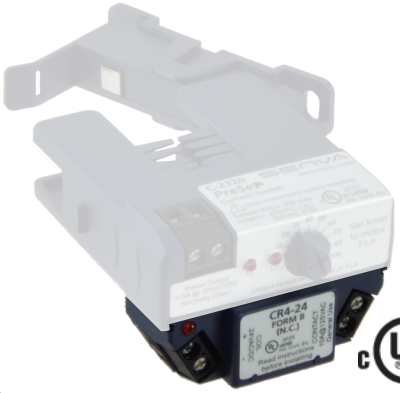
Maximum surrounding air ambient, 60 ° C.

For use in Pollution Degree 2 Environment.

Part Number	CR4-12	CR4-24
Coil	9-12VDC, 30mA nom.	24VAC/DC, 15mA nom.
Contact Arrangement	N.C. (1 form B)	
Contact Rating	10A@125VAC (UL C300 RATED)	
Temperature Rating	-15~60 ° C	
Dimensions (LxWxH)	2.94" x 2.23" x 0.82" (1.4" H with optional relay module)	

INSTALLATION INSTRUCTIONS

CR3-24V
Relay Module, 1 x N.O.
Fits C23xx series



3PZS
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

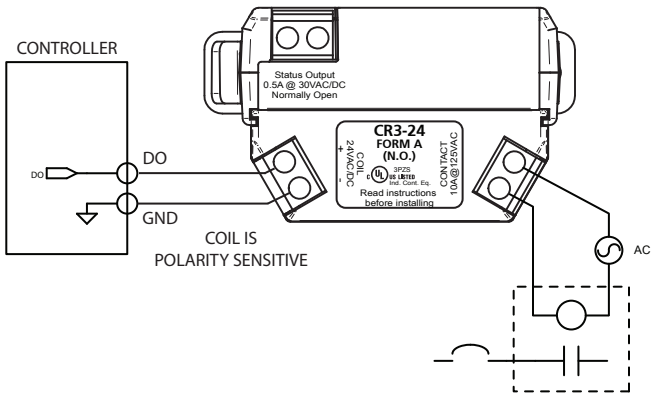
PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising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

INSTALLATION

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

1. Slide relay module onto any C23xx series mini split-core sensor.
2. Wire relay module to control panel and to motor starter. Tighten terminals to 3.5 in-lb.
3. Observe polarity of relay coil terminals.

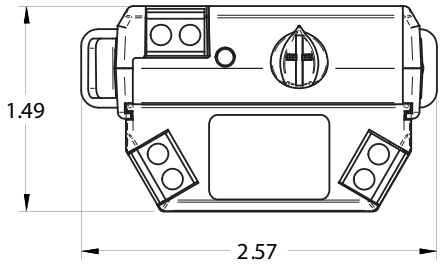
WIRING EXAMPLES



OPERATION

The CR3 command relay module slides onto any C23xx series sensor, providing a convenient means of controlling line-voltage devices such as motor starters from low-voltage control signals.

DIMENSIONS



Troubleshooting

Symptom	Causes	Remedy
LED not lit, relay not energized	Coil wiring incorrect	Check polarity
	Coil voltage too low	Check coil voltage

Maximum surrounding air ambient, 60 ° C.

For use in Pollution Degree 2 Environment.

Part Number	CR3-12	CR3-24
Coil	9-12VDC, 30mA nom.	24VAC/DC, 15mA nom.
Contact Arrangement	N.O. (1 form A)	
Contact Rating	10A@125VAC (UL C300 RATED)	
Temperature Rating	-15~60 ° C	
Dimensions (LxWxH)	2.94" x 2.23" x 0.82" (1.4" H with relay module)	

INSTALLATION INSTRUCTIONS

CR3-12V Relay Module, 1 x N.O. Fits C23xx series

3PZS
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

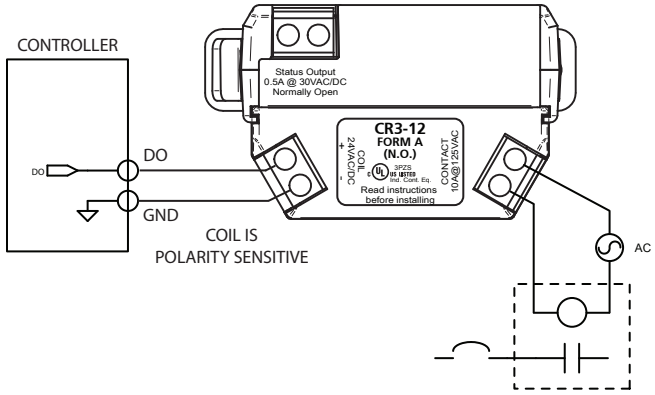
PRODUCT APPLICATION LIMITATION:
Senva products are not designed for life or safety applications. Senva products are not intended for use in critical applications such as nuclear facilities, human implantable device or life support. Senva is not liable, in whole or in part, for any claims or damages arising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

INSTALLATION

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

1. Slide relay module onto any C23xx series mini split-core sensor.
2. Wire relay module to control panel and to motor starter. Tighten terminals to 3.5 in-lb.
3. Observe polarity of relay coil terminals.

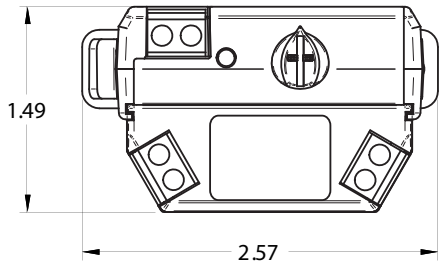
WIRING EXAMPLES



OPERATION

The CR3 command relay module slides onto any C23xx series sensor, providing a convenient means of controlling line-voltage devices such as motor starters from low-voltage control signals.

DIMENSIONS



Troubleshooting

Symptom	Causes	Remedy
Relay not energized	Coil wiring incorrect	Check polarity
	Coil voltage too low	Check coil voltage

Maximum surrounding air ambient, 60 ° C.

For use in Pollution Degree 2 Environment.

Part Number	CR3-12	CR3-24
Coil	9-12VDC, 30mA nom.	24VAC/DC, 15mA nom.
Contact Arrangement	N.O. (1 form A)	
Contact Rating	10A@125VAC (UL C300 RATED)	
Temperature Rating	-15~60 ° C	
Dimensions (LxWxH)	2.94" x 2.23" x 0.82" (1.4" H with relay module)	