

# Installation Instructions

## H970LCB

### Split-Core Low Current 4-20mA & 0-10VDC DC Current Transducer



H970LCB

#### VERIS INDUSTRIES

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- **This product is not intended for life or safety applications. This product is not intended for installation in hazardous or classified locations.**
- **Potential electrocution hazard exists. Installing sensors in an energized motor control center or on any energized conductor can be hazardous.**
- **Read instructions thoroughly prior to installation**

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 and service. Applications shown are suggested means of installing sensors, 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.

### INSTALLATION

1. Ensure power conductor to be monitored is disconnected and locked out from the power source!
2. Install the adjustable mounting bracket to the back of the electrical enclosure.
3. Snap the split core around the conductor being monitored and close until the core snaps shut. Be sure to orient the sensor so the directional arrows point toward the load.

#### NOTES:

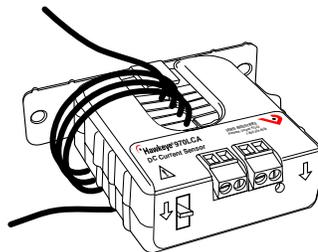
- **To monitor current under 2 Amps please see installation note #1.**
4. Connect 15-24VAC/DC to the terminals marked power (+) and Gnd (-).
  5. Set the field selectable range switch to the desired level. (see calibration section)
  6. Wire 4-20mA signal and/or 0-10VDC terminal to Analog Input of digital control system.

### INSTALLATION NOTES

#### 1. For currents under 5 Amps:

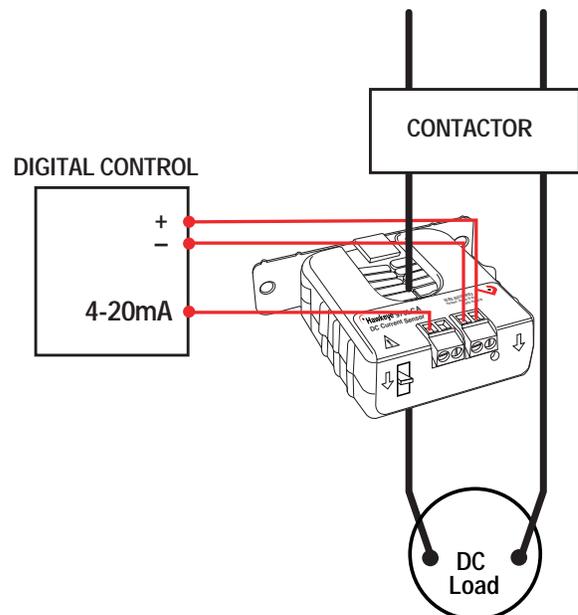
To provide adequate current and ensure accuracy, wrap the conductor through the center hole and around the sensor body to produce multiple passes and increase flow.

- Measured current = Actual current x the number of passes. Controller must be programmed to account for the extra passes. i.e., if four passes are run through the sensor (as shown above) the reading must be divided by 4.



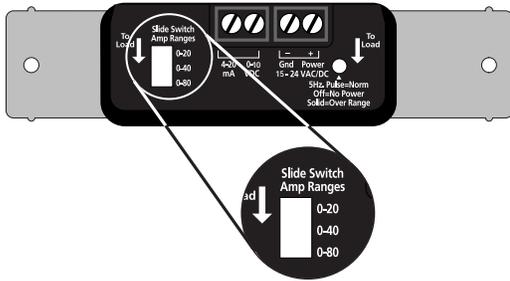
Example in Diagram shows 4 passes

#### WIRING EXAMPLE



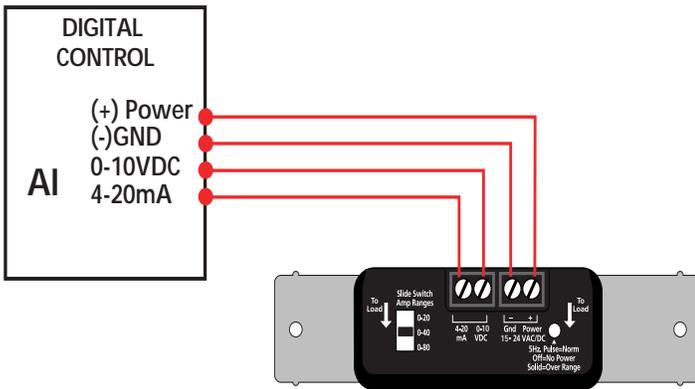
## SET-UP & WIRING

Set the amperage range selector switch to a level appropriate for your load. The H970LCB is equipped with three slide switch selected amperage ranges, 0 - 20, 0 - 40, and 0 - 80Amps. For currents up to 200 Amps see the H970HCB. If the nominal amperage level of your load is unknown select a range using the LED. Set the slide switch to 0 - 20 Amps. If the LED is pulsing (norm) this is the correct range. If the LED is solid (over range) move the slide switch to the next position. Continue until the correct range is found.



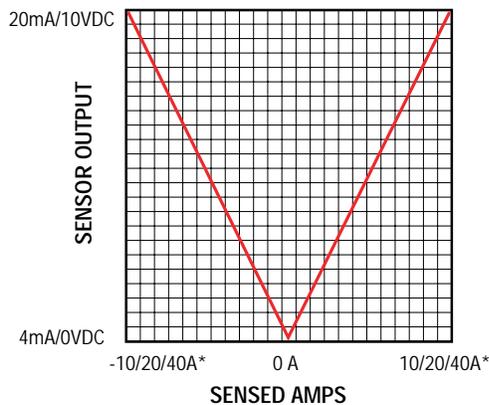
Amperage Range Selector Switch

### Wiring Diagram



## SCALING SOFTWARE

### H970LCB Linear Uni-Polar Analog Outputs



\*Slide Switch Selectable

## SPECIFICATIONS

Technology .....	Open loop Hall effect
Amperage Range .....	0 - +/-20/40/80 ADC
Sensor Supply Voltage .....	15-24VAC/DC
Isolation .....	600VAC rms. (max. voltage when monitoring an uninsulated conductor)
Temperature Range .....	5° - 55° C
Humidity Range .....	0-95% non-condensing
Output Choices .....	4-20mA &/or 0-10VDC
Accuracy .....	+/- 1% Full Scale
Linearity .....	+/-1%
Repeatability .....	+/-1%

## TROUBLESHOOTING

1. **The LED is off and no signal is produced.**
  - A. Verify that Power is applied to PWR (+) & GND (-) terminals.
2. **The LED is on Solid and the output is at its maximum.**
  - A. Verify that the Amperage Range selecting slide switch is in the proper position. (see SET-UP & WIRING SECTION)