

# Installation Instructions

## HAWKEYE 608

Miniature Split Core Adjustable Current Status Sensor

### INSTALLATION

**CAUTION!**

- This product is not intended for life or safety applications.
- Installing sensors in an energised motor control center or on any energised conductor can be hazardous.

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 prior to installation.

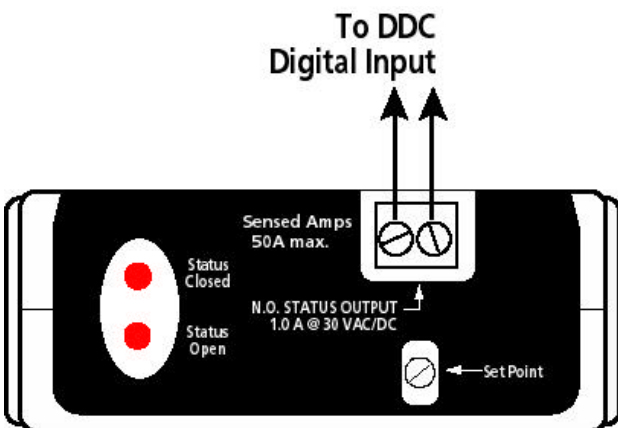
Applications shown are suggested means of installing sensors, but it is the responsibility of the installer to ensure that the installation is in compliance with all national and local codes. Installation should be attempted only by individuals familiar with codes, standards, and proper safety procedures for high-voltage installations.

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 motor control center. The sensor may be located at any point on the conductor between the motor and the motor starter.
3. Align to permit the conductor to fit through the hole. Slide the conductor through the center hole in the sensor and connect the conductor to the lugs on the motor starter.

**Note:** Low (<1.25 amp) and high (>50 amps) applications may require special installation:

- a. Low amperage (<1.25 amp FLA) - to provide adequate current, wrap conductor through the center hole and around the sensor body to produce multiple turns and increase flow. Measured current = Actual Current x Number of turns.
  - b. High amperage (>50 amp FLA) - current flows in excess of 50 amps require the use of an appropriately sized current sensor. Consult the factory for other products like the H908 that have an extended current sensing range.
4. Wire as shown below. Note: Testing the solid-state output of this sensor with a digital ohmmeter may yield inaccurate, but relative readings of switching (i.e., 6 Meg Ohms.) Use an Analog VOM for readings similar to loop.

**Status output is not polarity sensitive!**



### CALIBRATION

This current switch has been factory set at the minimum trip point. Without further calibration, it will detect on/off status of electrical loads  $\geq 1.25A$ .

If after installing the sensor the Status closed LED is not on, the current level is  $< 1.25 A$ . To increase the sensed current, wrap turns through the center of the sensor until the status output closed LED comes on.

**Sensed current = (number of turns x actual current), e.g., with a actual current of .5 A and 5 turns wrapped through the sensor the sensed current would be 2.5 A.**

Orient the current switch so the status output terminal is facing you and follow method number 1 or 2 below.

1. For under current status indication: (Belt loss, fan & pump status)
  - Turn the set point screw clockwise until the status closed LED goes out and the status open LED comes on.
  - Turn the set point screw counter-clockwise until the status open LED goes out and the status closed LED comes on.
  - Turn the set point screw  $\frac{1}{4}$  turn counter-clockwise.
  - The sensor is now calibrated to provide indication of current flows below normal full load amps.

Output Status:  
 Normal: Output closed  
 Alarm: Output open

2. For over current status indication: (Locked rotor)
  - Turn the set point screw counter-clockwise until the status open LED goes out and the status closed LED comes on.
  - Turn the set point screw clockwise until the status closed LED goes out and the status open LED comes on.
  - Turn the set point screw clockwise  $\frac{1}{4}$  turn
  - The sensor is now calibrated to provide indication of current flows above normal full load amps

Output Status:  
 Normal: Output open  
 Alarm: Output closed

**CAUTION!**

Status indicators of this device should not be relied on to determine whether or not the monitored conductor is connected to a power source. Doing so may result in injury or death from electrical shock.

**For technical assistance, please call 1-800-354-8556**

### SPECIFICATIONS

Amperage Ratings.....	1.25 to 50A continuous
Sensor Supply Voltage....	Induced from monitored conductor
Isolation.....	600VAC rms
Sealing.....	N.E.M.A. 1
Temperature range.....	-15 to 60°C
Humidity range.....	0-95% non-condensing
Status Output.....	N.O. 1.0A @ 30 VAC/DC
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