**HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH**
- Follow safe electrical work practices. See NFPA 70E in the USA, or applicable local codes.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Read, understand and follow the instructions before installing this product.
- Turn off all power supplying equipment before working on or inside the equipment.
- Use a properly rated voltage sensing device to confirm power is off.
- Do NOT DEPEND ON THIS PRODUCT FOR VOLTAGE INDICATION
- Only install this product on insulated conductors.

**NOTICE**
- This product is not intended for life or safety applications.
- Do not install this product in hazardous or classified locations.
- The installer is responsible for conformance to all applicable codes.
- Mount this product inside a suitable fire and electrical enclosure.

**WIRING EXAMPLE**

**INSTALLATION**

Disconnect and lock out power to the enclosure containing the conductor to be monitored.

1. Locate a mounting surface for the removable mounting bracket that will allow the monitored conductor to pass through the center window when it is installed and that will keep the product at least 1/2" from any uninsulated conductors. Determine cable routing for the controller connection, allowing wiring to reach the mounting location.

2. Drill holes to mount the bracket to the chosen surface using the included screws.

3. Wire the output connections between the sensor and the controller (solid-state contact).

4. Snap the sensor over the wire to be monitored and push the latch until it is securely closed. Clip the assembly to the mounting bracket.

5. Calibrate the current switch (see Calibration section).

6. Secure enclosure and reconnect power.

**DIMENSIONS**
**OPERATION**

The H308 is a current-sensitive switching device that monitors current (amperage) in the conductor passing through it. A change in the conductor’s amperage that crosses the adjustable switch threshold plus the hysteresis value causes the resistance of the FET status output to change state, similar to the action of a mechanical switch. The status output is suitable for connection to building controllers or other appropriate data acquisition equipment operating at up to 30 volts. The H308 requires no external power supply to generate its output.

**NOTES**

For load currents greater than sensor maximum rating:
Use a 5 Amp (H68x series) Current Transformer (CT) as shown. This technique can be combined with wrapping (see below) to add range for a low current load on a high current source.

DANGER: 5A CTs can present hazardous voltages. Install CTs in accordance with manufacturer’s instructions. Terminate the CT secondary before applying current.

**CAUTION**

**RISK OF EQUIPMENT DAMAGE**
- Derate the product’s maximum current for the number of turns through the sensing window using the following formula.
  
  \[
  \text{Rated Max. Amps} \div \text{Number of Turns} = \text{Max. monitored Amps}
  \]
  
  e.g.: 100A \div 4 \text{ Turns} = 25 \text{ Amps max. in monitored conductor}
- Failure to follow these instructions can result in overheating and permanent equipment damage.

For load currents less than sensor minimum rating:
Wrap the monitored conductor through the center window and around the sensor body to produce multiple turns. This increases the current measured by the transducer.

DANGER: 5A CTs can present hazardous voltages. Install CTs in accordance with manufacturer’s instructions. Terminate the CT secondary before applying current.

**CALIBRATION**

Before beginning calibration, establish normal load conditions.

Then choose either A or B below.

**A. To monitor under-current (belt loss, coupling shear, status)**

1. Turn setpoint screw clockwise until Status OPEN LED turns ON.
2. Slowly turn the screw counter-clockwise until the Status CLOSED LED just turns ON.
3. Turn the screw an additional 1/4 turn counter-clockwise for operational margin.

**B. To monitor over-current (mechanical problems, seized impeller)**

1. Turn setpoint screw counter-clockwise until Status CLOSED LED turns ON.
2. Slowly turn the setpoint screw clockwise until the Status OPEN LED just turns ON.
3. Turn the setpoint screw an additional 1/4 turn clockwise for operational margin.

**TROUBLESHOOTING**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Reading at Controller</td>
<td>• Check for control voltage at sensor (&lt;30V)</td>
</tr>
<tr>
<td></td>
<td>• Check for ampereage in monitored conductor (&gt; 0.75A)</td>
</tr>
<tr>
<td></td>
<td>• Assure that sensor core mating surfaces are clean and that the core clamp is completely closed</td>
</tr>
<tr>
<td></td>
<td>• Verify that the setpoint is not above operating amps by turning screw CCW (up to 20 turns) until the contacts close (Status Closed LED turns on).</td>
</tr>
<tr>
<td>Setpoint screw has no stops</td>
<td>The 20 turn setpoint screw has a slip clutch to prevent damage at either end. To re-start the calibration process, turn the screw 20 full turns CCW. This sets the device in its original and most sensitive position. Resume calibration from the beginning.</td>
</tr>
<tr>
<td>Both LEDs are lit</td>
<td>The screw has been turned too far CW. Turn the screw 20 full turns CCW and resume calibration from the beginning.</td>
</tr>
</tbody>
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