

•Hawkeye 🖩 900 Split-Core Current Switch, Fixed Trip Point





DANGER $\underline{\wedge}$

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.

Failure to follow these instructions will result in death or serious injury.

A qualified person is one who has skills and knowledge related to the construction and operation of this electrical equipment and the installation, and has received safety training to recognize and avoid the hazards involved. NEC2009 Article 100 No responsibility is assumed by Veris Industries for any consequences arising out of the use of this material.

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



SPECIFICATIONS

Amperage Range 1.5 - 200A Continuous Status Output Ratings N.O. 1.0A@30VAC/DC not polarity sensitive Insulation Class 600VAC RMS (UL), 300VAC RMS (CE) Setpoint Fixed at 1.5A max. (60 Hz)
Insulation Class 600VAC RMS (UL), 300VAC RMS (CE)
Setucint Fixed at 1.54 may (60 Hz)
Frequency 50/60 Hz
Temperature Range -15° to 60°C (5° to 140°F)
Humidity Range 10-90% RH non-condensing
Off State Resistance Open switch represents $1 + M\Omega$
On State Resistance Closed switch represents $< 200 \text{ m}\Omega$
Terminal Block Wire Size 14 to 24 AWG (2.1 to 0.2 mm ²)
Terminal Block Torque 3.5 to 4.5 in-lb (0.4 to 0.5 N-m)
Agency Approvals UL508, CE: EN61010-1
Installation Category Cat. III, pollution degree 2

For CE compliance, conductor shall be insulated according to IEC 61010-1.

INSTALLATION



Disconnect power to the enclosure containing the conductor to be monitored.

- 1. Locate a 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 $\frac{1}{2}$ " (13 mm) 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 clip the assembly to the mounting bracket.
- 5. Secure the enclosure and reconnect power.



DIMENSIONS

Z201493-0D

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OPERATION

The H900 is a current-sensitive switching device that monitors current (amperage) in the conductor passing through it. A change in amperage in the monitored conductor that crosses the switch (setpoint) threshold plus the hysteresis value causes the resistance of the FET status output to change state, similar to the action of a mechanical switch. In this model, the setpoint is fixed at 1.5 A. The status output is suitable for connection to building controller or other appropriate data acquisition equipment operating at up to 30 volts. The H900 requires no external power supply to generate its output.

The H900 housing offers unprecedented mounting flexibility. The mounting bracket can be attached in three different places. Additionally, the bracket is compatible with the Veris AH01 DIN Rail clip, allowing DIN mounting.

NOTES

For load currents greater than sensor maximum rating:

Use a 5 Amp (H68xx 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.

Rated Max. Amps ÷ Number of Turns = Max. monitored Amps

- e.g. : $100A \div 4$ Turns = 25 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.

<1.5 A (Sensor min.)

Program the controller to account for the extra turns. e.g., if four turns pass through the sensor (as shown), divide the normal controller reading by 4.



TROUBLESHOOTING

No Reading at Controller	 Check for amperage in monitored conductor (>1.5A). Check that amperage in the monitored conductor does not exceed sensor max (200A). Check to be sure that no more than 30VAC/DC or 1.0A has passed through the contact. Voltages or currents above these levels will damage the unit. Verify that sensor core mating surfaces are clean and that the core clamp is completely closed