VERIS INDUSTRIES 💙

CURRENT MONITORING

Ű US

INSTALLATION GUIDE

H958



\Lambda DANGER 🆄

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

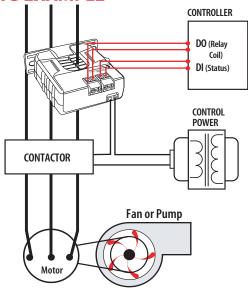
- Follow safe electrical work practices. See NFPA 70E in the USA, or applicable local codes.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Read, understand and follow the instructions before installing this product.
- Turn off all power supplying equipment 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.

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



(•Hawkeye_@ 958 Split-Core Current Switch, Adjustable Output, with Command Relay

Installer's Specifications

Sensor Power	Induced from monitored conductor
Insulation Class	600VAC RMS
Frequency Range	50/60Hz
Temperature Range	-15° to 60°C (5° to 140°F)
Humidity Range	10-90% RH, non-condensing
Hysteresis	10% Typical
Terminal Block Maximum Wire Size	14 AWG
Terminal Block Torque (nominal)	4 in-lbs (0.45 N-m)
Agency Approvals	UL 508 open device listing

Do not use the LED status indicators as evidence of applied voltage.

OUICK INSTALL

- 1. Disconnect and lock out power to the conductor to be monitored.
- 2. Plan the installation:

Locate a mounting surface for the removable mounting bracket that will allow the monitored conductor to pass through the iris, or "window" when it is installed and keep the product at least 1/2" (13mm) from any uninsulated conductors (CE). Determine cable routing for the controller connection, allowing wiring to reach the mounting location.

3. Install mounting bracket

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

- 4. Wire the output connections between the sensor and the controller.
- 5. Snap thesensor over the wire to be monitored and clip the assembly to the mounting bracket.
- 6. Close up and power up.

DIMENSIONS

Removable Mounting Bracket 1.0" 25 mm Bracket can be mounted on either side for added 1.1″ 0.8" installation flexibility. (26 mm) (21,mm) 3.1" (79 mm Self-gripping lris 2.8 (70 mm) Use DIN Rail 1.4" $\emptyset = 0.3'$ Mounting clip (36 mm) (8 mm) (Veris part 2.5" number AH01) to (64 mm) 3.0' mount on stan-(76 mm) dard DIN rail.

Z201500-0A

PAGE 1

VERIS INDUSTRIES 🕅

H958

INSTALLATION GUIDE

OPERATION

The H958 is a current-sensitive switching device with integral command relay 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 will cause the resistance of the status output to change state, similar to the action of a mechanical switch. This status information can be fed back to a building controller that interprets the signal and separately switches the relay. The status output can also be used to switch the relay directly.

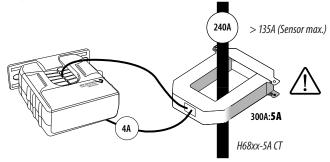
In this model, the setpoint is adjustable through the action of a twenty (20) turn potentiometer (see the CALIBRATION section). The status output is suitable for connection to building controllers or other appropriate data acquisition equipment operating at up to 30 volts. The H958 relay requires a 12VDC external power supply for operation.

The H958 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.





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

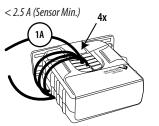
- Derate the product's maximum current for the number of turns through the sensing window using the following formula.
 - Rated Max. Amps ÷ Number of Turns = Max. monitored Amps
 - e.g.: 100A ÷ 4 Turns = 25 Amps max. in monitored conductor
- Failure to follow these instructions can result in overheating and permanent equipment damage.

For load currents less than sensor minimum rating:

Wrap the monitored conductor through the center hole and around the sensor body to produce multiple turns through the "window." This increases the current measured by the transducer.

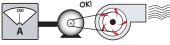
Controller must be programmed to account for the extra turns. e.g., if four turns pass through the sensor (as shown) the normal controller

reading must be divided by 4.



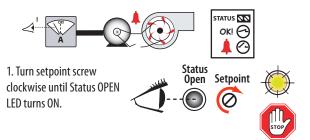
CALIBRATION

Before beginning calibration, establish normal load conditions.



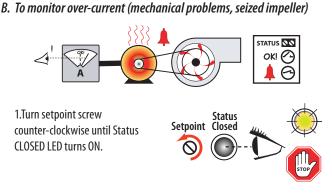
Then choose either A or B below.

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

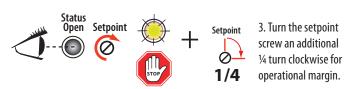


2. Slowly turn the screw counter-clockwise until the Status CLOSED LED just turns ON.





2. Slowly turn the setpoint screw clockwise until the Status OPEN LED just turns ON.



TROUBLESHOOTING

Problem	Solution
No Reading at Controller	 Check sensor calibration (see above) Check for control voltage at sensor (<30V) Check for amperage in monitored conductor (>2.5A) Assure that sensor core mating surfaces are clean and that the core clamp is completely closed
Setpoint screw has no stops	The setpoint screw has a slip-clutch at both ends of its travel to avoid damage. Twenty turns CCW will reset the sensor to be most sensitive. Repeat calibration above.
Both LEDs are lit	Setpoint screw is too far clockwise. See solution above.

Z201500-0A

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