

# Current Sensors with Relay: 4-20mA Analog Output

## H931 & H951



**Hawkeye™**

H931

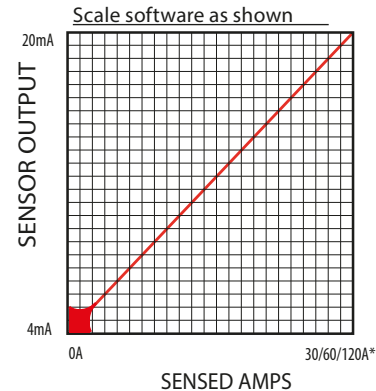


### SPECIFICATIONS

Sensor Power	30mA (max.)@12-30VDC
Insulation Class	600VAC RMS
Frequency Range	50/60 Hz
Temperature Range	-15° to 60°C (5° to 140°F)
Humidity Range	10-90% RH non-condensing
Accuracy	±2% F.S. from 10% to 100% (selected range)
Response Time	2 sec.
Terminal Block Wire Size	24-14 AWG (0.2 to 2.1 mm <sup>2</sup> )
Terminal Block Torque	3.5 to 4.4 in-lbs (0.4 to 0.5 N-m)
Agency Approvals	UL 508 open device listing, CAT III, pollution degree 2, basic insulation

Do not use LED status indicators as evidence of applied voltage

### EXAMPLE LINEAR OUTPUT



\*Factory calibrated ranges selected with the amperage range switch

## Load Trending and Control Relay In One Package

### FEATURES

- Loop-powered analog current sensor with integral start/stop command relay
- Reduces the number of installed components...saves time and space
- Self-gripping, split-core design for fast retrofit installation...no need to remove conductor
- One device to install for start/stop & status...reduces installation charges
- Power the current sensor and receive the 4-20mA signal with only two wires...fewer wires required than with traditional 3-wire sensors
- Selectable factory calibrated ranges up to 120A for increased flexibility and resolution
- Factory calibrated switch-selectable ranges (30/60/120A) for high resolution and installation ease
- No jumpers on unit...reduce installation error
- Removable mounting bracket for installation flexibility
- Bracket can be installed in three different configurations... added flexibility
- Command relay switches up to 5A@250VAC
- 5-year warranty

Specifications subject to change without notice

### DESCRIPTION

The Hawkeye 931 and 951 provide accurate load trending information with a proportional 4-20mA output signal. These devices offer three amperage ranges for versatility, with easy slide-switch selection. The command relay is fully integrated in the device, but it is isolated from the current sensor. This combination makes these products ideal for start/stop control and status monitoring of motors, using one device instead of two.

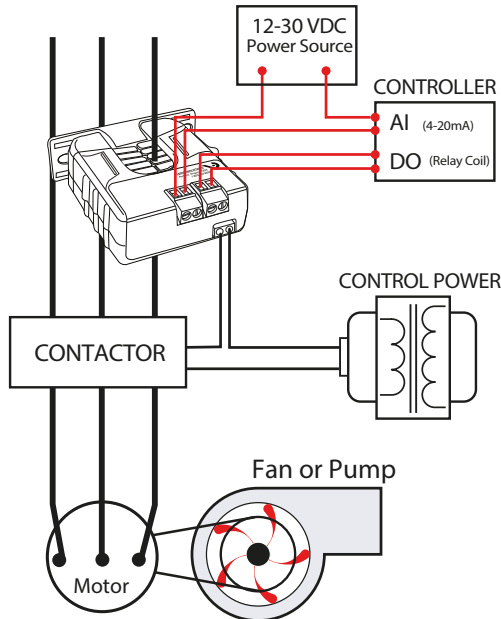
### APPLICATIONS

- Load trending
- Motor control
- Positive proof of flow

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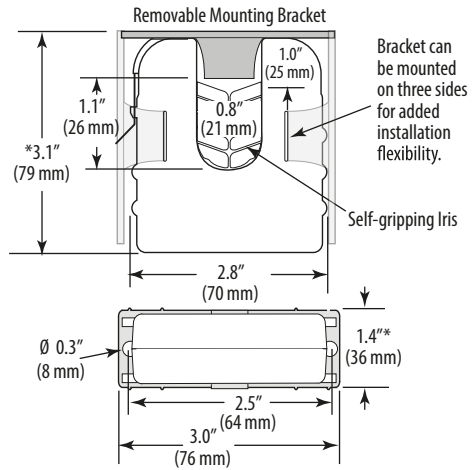
## WIRING DIAGRAMS

Trending & Controlling Motor Loads with the Hawkeye 931



## DIMENSIONAL DRAWINGS

H931/H951



\* Terminal block may extend up to 1/8" over the height dimensions shown.  
\*\* Slide switch may extend up to 1/4" over the height dimensions shown.

## RELAY CONTACT RATINGS (N.O.)

Resistive.....	5A@240 VAC
	5A@30 VDC
Inductive.....	2A@240 VAC
	2A@30 VDC

## TYPICAL COIL PERFORMANCE

Voltage	AC	DC
24 .....	15	15
12 .....		20
Pull In Voltage (H951 only)		
12VDC .....		8.4VDC
Drop Out Voltage (H951 only)		
12VDC .....		3.0VDC

## ORDERING INFORMATION



MODEL	AMPERAGE RANGE	SENSOR OUTPUT	RELAY TYPE	RELAY COIL	RELAY	RELAY POWER LED	UL
H931	0 - 30/60/120A	4 - 20mA	SPST, N.O.	24VAC/DC	●	●	●
H951				12VDC nom.	●	●	●

## ACCESSORIES

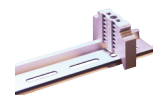
DIN Rail Clip Set (AH01)  
DIN Rail (AV01) and DIN Stop Clip (AV02)



AH01



AV01



AV02