

## H931

### Load Trending and Control Relay in One Package



H931



The Hawkeye 931 provides accurate load trending information with a proportional 4 to 20 mA 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 transducer. This combination makes these products ideal for start/stop control and status monitoring of motors, using one device instead of two.

#### SPECIFICATIONS

|                          |                                            |
|--------------------------|--------------------------------------------|
| Sensor Power             | 30 mA (max.) @ 12 to 30 Vdc                |
| Insulation Class         | 600 Vac RMS                                |
| Frequency Range          | 50/60 Hz                                   |
| Temperature Range        | -15 to 60 °C (5 to 140 °F)                 |
| Humidity Range           | 10 to 90% RH non-condensing                |
| Accuracy                 | ±2% F.S. from 10% to 100% (selected range) |
| Response Time            | 2 sec.                                     |
| Terminal Block Wire Size | 24 to 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)         |

#### WARRANTY

|                  |         |
|------------------|---------|
| Limited Warranty | 5 years |
|------------------|---------|

#### AGENCY APPROVALS

|                  |                                                                           |
|------------------|---------------------------------------------------------------------------|
| Agency Approvals | UL 508 open device listing, CAT III, Pollution Degree 2, basic insulation |
|------------------|---------------------------------------------------------------------------|



Note: Do not use LED status indicators as evidence of applied voltage

### Loop-powered

Loop-powered analog current transducer with integral start/stop command relay

### Reduces installation charges

One device to install for start/stop and status

### Saves time

Reduces the number of installed components...saves time and space

### Retrofit

Self-gripping, split-core design for fast retrofit installation...no need to remove conductor

### Fewer wires

Power the current sensor and receive the 4 to 20 mA signal with only two wires

### Factory calibrated

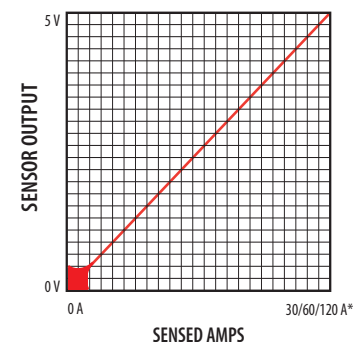
Selectable factory calibrated ranges up to 120 A for increased flexibility and resolution

#### APPLICATIONS

- Load trending
- Motor control
- Positive proof of flow

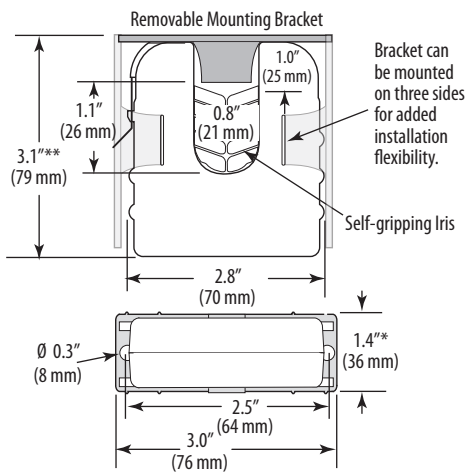
#### EXAMPLE LINEAR OUTPUT

Scale software as shown



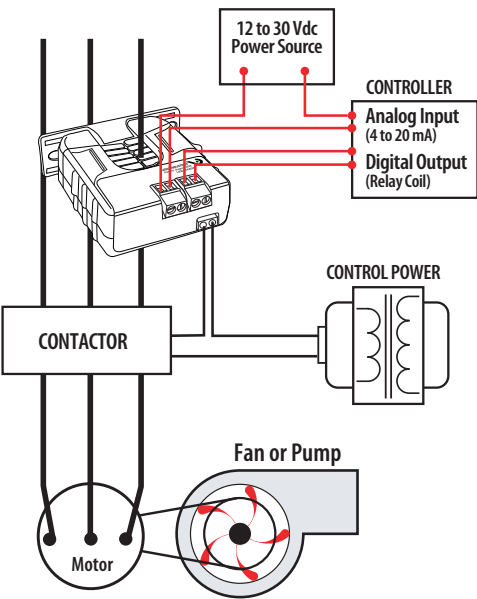
\*Factory calibrated ranges selected with the amperage range switch

DIMENSIONAL DRAWING



\* 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.

TRENDING & CONTROLLING MOTOR LOADS  
Wiring Diagram



RELAY CONTACT RATINGS (N.O.)

|           |                       |
|-----------|-----------------------|
| Resistive | 5 A @ 250 Vac, 30 Vdc |
|           | 5 A @ 30 Vac, 30 Vdc  |
| Inductive | 2 A @ 250 Vac, 30 Vdc |
|           | 2 A @ 30 Vac, 30 Vdc  |

TYPICAL COIL PERFORMANCE

| Voltage | AC | DC |
|---------|----|----|
| 24      | 15 | 15 |

ORDERING INFORMATION

| MODEL | AMPERAGE RANGE   | SENSOR OUTPUT | RELAY TYPE | RELAY COIL | RELAY | RELAY POWER LED | UL |
|-------|------------------|---------------|------------|------------|-------|-----------------|----|
| H931  | 0 to 30/60/120 A | 4 to 20 mA    | SPST, N.O. | 24 Vac/dc  | •     | •               | •  |