STATUS AND CONTROL IN ONE PACKAGE

5 Year Warranty

US Patent 6,005,760

H735

Solid-core with 24V SPST Relay

H738

Solid-core with 24V SPST Relay

H748

Solid-core with 24V SPDT Relay

H758

Solid-core with 12V SPST Relay

H938

Split-core with 24V SPST Relay

H948

Split-core with 24V SPDT Relay

H958

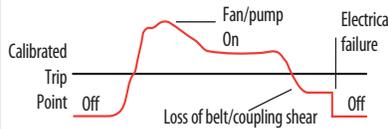*Split-core with 12V SPST Relay*

Current Switches with Relay: Adjustable Trip Point, Standard Output

The **Hawkeye Relay Combination Series** is the ideal solution for the automation installer. These units combine a current switch and relay into a single package, reducing the space required for total control of fans and pumps. The current switch and relay operate independently of one another. These devices allow start/stop control and status monitoring with one device instead of two.

APPLICATIONS

■ Starting/stopping and monitoring positive status of motors

■ Detecting belt loss and coupling shear

Combines command relay and fan/pump status sensor in a single, easy to install unit

■ Reduces number of components installed – fits better in small starter enclosures

■ Detect belt loss and motor failure...ideal for fan and pump status

■ H748 and H948 feature a SPDT command relay... control two outputs with a single relay

■ Bracket on H938, H948, and H958 can be installed in three different configurations...added flexibility

Now, one device does the job of two

■ Reduced charges from electrician

■ Relay and status LEDs for easy setup

■ Polarity insensitive status output

■ Adjustable setpoint for current sensor status

■ 5-year limited warranty

Detects belt loss/coupling shear!

Calibrated Trip Point — Off | Fan/pump On | Electrical failure | Off

Loss of belt/coupling shear

Now you can easily detect when drive belts slip, break, or pump couplings shear. In fact, a typical HVAC motor that loses its load has a reduction of current draw of up to 50%. That's why our sensors are the industry standard for status.

CURRENT SENSING THE ULTIMATE PROOF OF FLOW

*Maximize Reliability
Minimize Installed Cost*

RELAY CONTACT RATINGS

Hx3x, Hx5x (SPST, N.O.)
Resistive.................................10A@250VAC, 30VDC
Inductive................................5A@250VAC, 30VDC
Hx4x (SPDT)
Resistive................................. 8A@250VAC, 30VDC
Inductive................................ 3.5A@250VAC, 30VDC

TYPICAL COIL PERFORMANCE

Voltage	AC	DC
24V.................................. 10mA		10mA
12V.. 20mA		

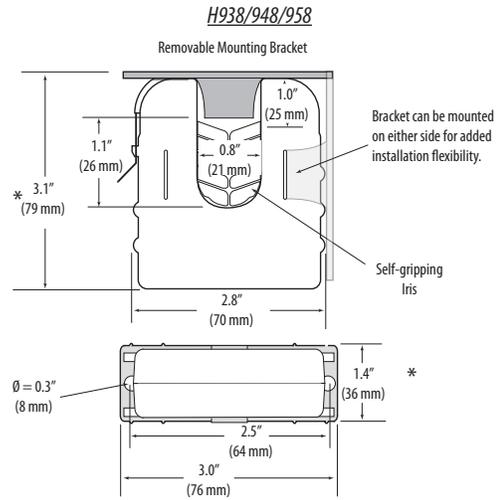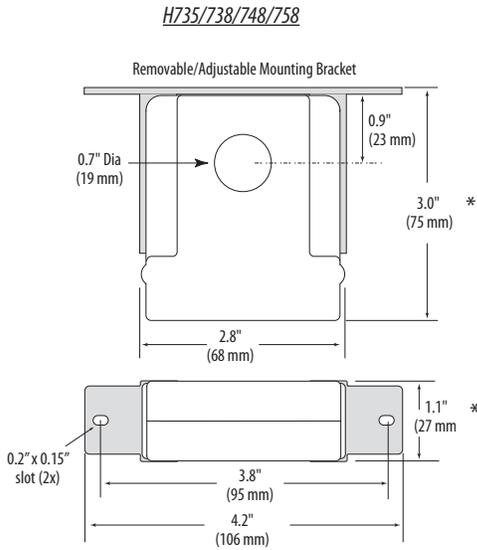## SPECIFICATIONS

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.*

DIMENSIONAL DRAWINGS

H735/738/748/758

Removable/Adjustable Mounting Bracket

0.7" Dia (19 mm)

0.9" (23 mm)

3.0" (75 mm) *

2.8" (68 mm)

0.2" x 0.15" slot (2x)

1.1" (27 mm) *

3.8" (95 mm)

4.2" (106 mm)

H938/948/958

Removable Mounting Bracket

1.0" (25 mm)

1.1" (26 mm)

0.8" (21 mm)

* 3.1" (79 mm)

Bracket can be mounted on either side for added installation flexibility.

Self-gripping Iris

2.8" (70 mm)

Ø = 0.3" (8 mm)
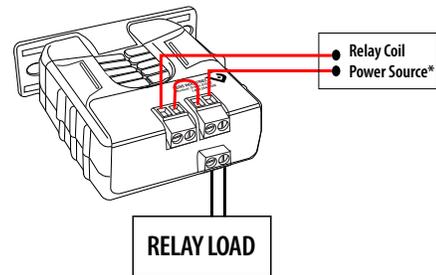
1.4" (36 mm) *

2.5" (64 mm)

3.0" (76 mm)

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

APPLICATION/WIRING EXAMPLE

Start/Stop Monitoring of Fan /Pump Motors

CONTROLLER

DI (Status)

DO (Relay Coil)

Hawkeye® 735

CONTACTOR

CONTROL POWER

Fan or Pump

Motor
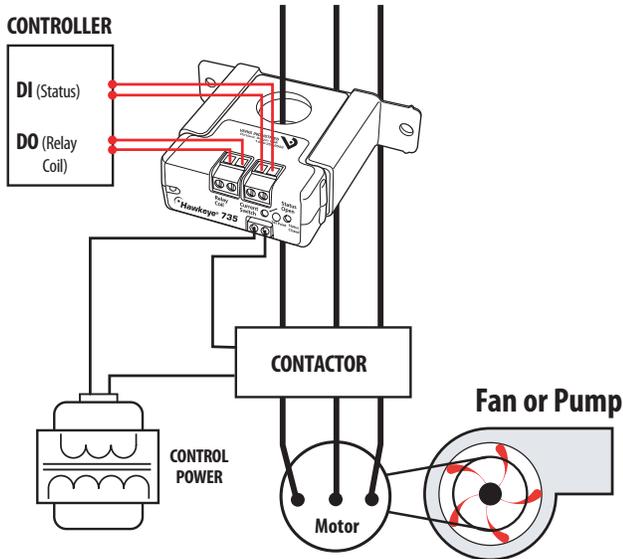
Relay Controlled Directly by Status Contacts

Relay Coil
Power Source*

RELAY LOAD

ORDERING INFORMATION

LISTED
3T60
UL 508
E150462

MODEL	AMPERAGE RANGE	STATUS OUTPUT (max.)	MIN. TRIP POINT	RELAY	COIL VOLTAGE	HOUSING	STATUS LED	RELAY POWER LED	UL
H735	1 - 135A	0.1A@30VAC/DC	1A or less	SPST, N.O.	24VAC/DC	Solid-core	●	●	●
H738	1 - 135A		1A or less	SPST, N.O.	24VAC/DC	Solid-core	●	●	●
H748	1 - 135A		1A or less	SPDT	24VAC/DC	Solid-core	●	●	●
H758	1 - 135A	1.0A@30VAC/DC	1A or less	SPST, N.O.	12VDC nom.	Solid-core	●	●	●
H938	2.5 - 135A		2.5A or less	SPST, N.O.	24VAC/DC	Split-core	●	●	●
H948	2.5 - 135A		2.5A or less	SPDT	24VAC/DC	Split-core	●	●	●
H958	2.5 - 135A		2.5A or less	SPST, N.O.	12VDC nom.	Split-core	●	●	●

ACCESSORIES

DIN Rail Clip Set, DIN Rail, and DIN Stop Clip...see page 219.