H735, HX38,HX48, HX58 SERIES

Status and Control in One Package



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.

SPECIFICATIONS

Sensor Power	Induced from monitored conductor			
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			
Hysteresis	10% Typical			
Terminal Block Wire Size	24 to 14 AWG (0.2 to 2.1 mm ²)			
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 the LED status indicators as evidence of applied voltage.

Combined relay & status

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

Fan & pump status

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

Polarity insensitive

Polarity insensitive status outputs...fast and easy installation

APPLICATIONS

- Starting/stopping and monitoring positive status of motors
- Detecting belt loss and coupling shear

Two outputs

H748 and H948 feature a SPDT command relay...control two

Added flexibility

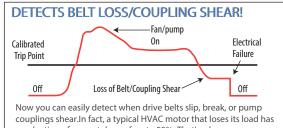
Bracket on H938, H948, and H958 can be installed in three different

outputs with a single relay

configurations

Easy setup

Relay and status LEDs



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.

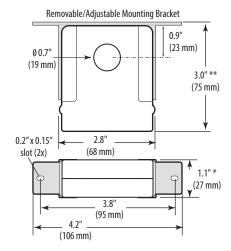
RELAY C	ONTACT RA	TINGS						
H735 (SPST, N.O.)	.on mer hm							
Resistive	5 A @ 250	Vac, 30 Vdc						
Inductive	3 A @ 250 Vac, 30 Vdc							
Hx38, Hx58 (SPDT N.O.)								
Resistive	10 A @ 250 Vac, 30 Vdc							
Inductive	5 A @ 250 Vac, 30 Vdc							
Hx48 (SPDT)								
Resistive	8 A @ 250	Vac, 30 Vdc						
Inductive	3.5 A @ 250 Vac, 30 Vdc							
TYPICAL COIL PERFORMANCE								
Voltage	AC	DC						
241/								
24V	10 mA	10 mA						
12V (Hx58)	10 mA	10 mA 20 mA						
	10 mA							
12V (Hx58)	10 mA							
12V (Hx58) Pull-in Voltage	10 mA	20 mA						
12V (Hx58) Pull-in Voltage Hx3x	10 mA	20 mA 20.1 Vdc						
12V (Hx58) Pull-in Voltage Hx3x Hx48	10 mA	20 mA 20.1 Vdc 20.1 Vdc						
12V (Hx58) Pull-in Voltage Hx3x Hx48 Hx58	10 mA	20 mA 20.1 Vdc 20.1 Vdc						
12V (Hx58) Pull-in Voltage Hx3x Hx48 Hx58 Drop-out Voltage	10 mA	20 mA 20.1 Vdc 20.1 Vdc 8.4 Vdc						

Dpstar Group

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H735/738/748/758

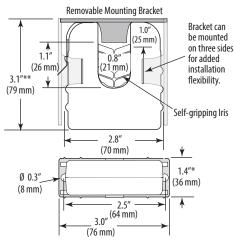
Dimensional Drawing



* 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.

H938/948/958

Dimensional Drawing

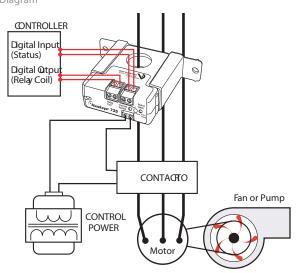


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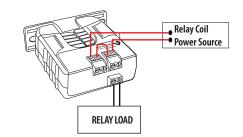
START/STOP MONITORING OF FAN /PUMP MOTORS

Wiring Diagram



RELAY CONTROLLED DIRECTLY BY STATUS CONTACTS

Wiring Diagram



ORDERING INFORMATION

MODEL	AMPERAGE RANGE	STATUS OUTPUT (MAX.)	MIN. TRIP POINT	RELAY	COIL VOLTAGE	HOUSING	STATUS LED	RELAY POWER LED	UL
H735	1 to 135 A	0.1 A @ 30 Vac/dc	1 A or less	SPST, N.O.	24 Vac/dc	Solid-core	•	•	•
H738	1 to 135 A	- 1.0 A @ 30 Vac/dc	1 A or less	SPST, N.O.	24 Vac/dc	Solid-core	•	٠	•
H748	1 to 135 A		1 A or less	SPDT	24 Vac/dc	Solid-core	٠	٠	•
H758	1 to 135 A		1 A or less	SPST, N.O.	12 Vdc nom.	Solid-core	٠	٠	•
H938	2.5 to 135 A		2.5 A or less	SPST, N.O.	24 Vac/dc	Split-core	•	•	•
H948	2.5 to 135 A		2.5 A or less	SPDT	24 Vac/dc	Split-core	٠	٠	•
H958	2.5 to 135 A		2.5 A or less	SPST, N.O.	12 Vdc nom.	Split-core	٠	•	•

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