



THE VFD STATUS SENSOR!

H904

U.S. Patent No. 5,705,989



Hawkeye® 904

Solid- & Split-Core Adjustable Setpoint Digital Output VFD Current Switch

The Hawkeye 904 microprocessor based current status switch provides a unique solution for monitoring status of motors controlled by variable frequency drives.

Provide accurate status on loads controlled by variable frequency drives. The H904 stores the sensed amperage values for normal operation at various frequency ranges in non-volatile memory. This information allows it to distinguish between a reduced amp draw due to normal changes in the frequency and abnormal amperage drop due to belt loss or other mechanical failures.

APPLICATIONS

- Monitoring positive status on motors controlled by variable frequency drives
- Replace pressure switches



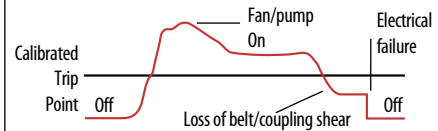
Microprocessor-based...real labor saver...No need to calibrate to detect belt loss on VFDs

- Self-adjusting trip setpoint...factory programmed to detect belt loss undercurrent conditions!
- Provides accurate status for VFD loads
- Automatically compensates for effects of frequency and amperage changes associated with VFDs
- LED indicates normal and alarm conditions
- Huge labor savings...no need to calibrate in live starter enclosures... Install and go

Accurately detects belt loss and coupling shear on VFD driven motors

- Monitors both frequency & amperage...distinguishes normal drops in amperage from
- Split-core design is ideal for retrofits...no need to remove conductor

Detects belt loss/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.

ORDERING INFORMATION



MODEL	AMPERAGE RANGE	OUTPUT TYPE	OUTPUT RATING (MAX.)	STATUS LED
H904	3.5-135A, 20-75Hz (on/off status only 20-34Hz, belt loss detection 35-75Hz.)	N.O. Solid-state	0.1A@30VAC/DC	

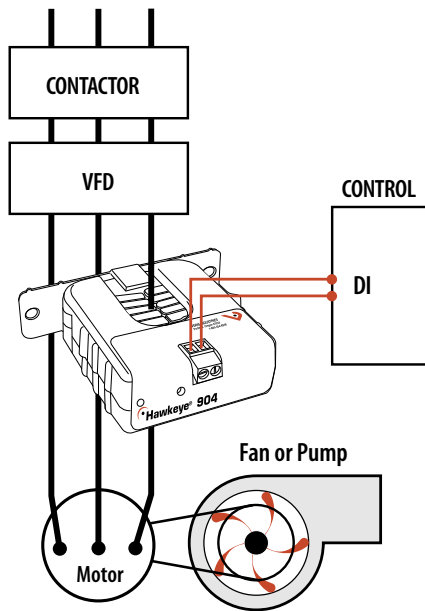
ACCESSORIES

DIN Rail Clip Set...See page 234

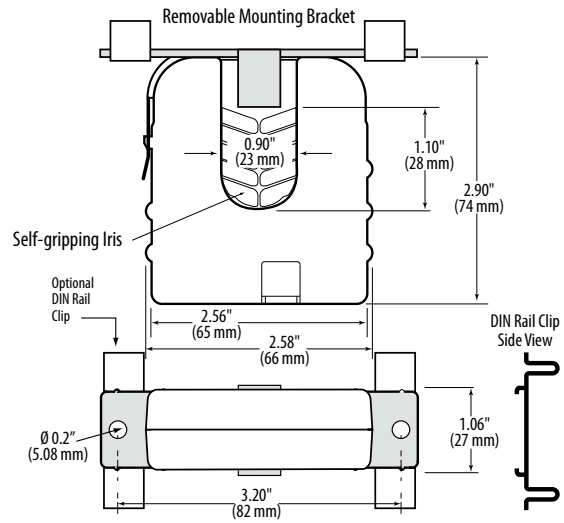


APPLICATIONS/WIRING EXAMPLE

Monitoring Fan /Pump Motors for Positive Proof of Flow



DIMENSIONAL DRAWINGS



SPECIFICATIONS

Amperage Range	3.5-135A (at all frequency levels)
Sensor Power	Induced
Output	Digital switch 0.1A@30VAC/DC
Insulation Class	600VAC rms
Frequency Range	34 to 75 Hz. (belt loss indication) 20 to 34 Hz. (on/off status)
Temperature Range	-15° to 60°C
Humidity Range	0-95% non-condensing
Trip Setpoint	Self-calibrating
Dimensions... (L x W x H)	2.90" (74mm) x 2.58" (66mm) x 1.06" (27mm)
Sensor Opening Size	1.10" (28mm) x .90" (23mm)
Off Delay	0 sec to 2 min.

NOTE: The H904 is not intended for use in staged pump or variable inlet vane applications. Do not use the LED status indicators as evidence of applied voltage.