Accessories for Enclosure, Room & & Building Alarm Systems

Applications

Bebco Model TAS Temperature Alarm Switches are selfcontained line voltage thermostats in sealed housings. They provide electrical contacts that will activate upon detection of an excessively high or low temperature within a climate controlled space.

Highly efficient and reliable designs make both Model TAS devices an ideal accessory for Enclosure, Room & Building Alarm Systems. If used for this purpose, these switches will provide high or low temperature alarm contacts to alert operators to adverse operating temperatures within a space, by activating Model RAD Alarm Devices or fail-safe remote alarm monitor system circuits.

These switches can also be used to activate Model WVF Wall Mount or Model RVF Roof Mount Ventilation Fan Units to regulate temperature within rooms or buildings.

Model TAC-1 Description

Model TAS-1 switches are housed in a NEMA 4X rated twopiece molded plastic enclosure. This switch is therefore ideal for a non-incendive or intrinsically safe circuit of a remote alarm monitor system.

The switch features a SPDT snap action switch to open or close as temperature within the space rises above or falls below the adjustable set-point. The contacts are activated by a hydraulic coil bulb sensor and controlled by a manually adjusted dial with analog display.

Model TAS-2 Description

Model TAS-2 switches are housed in a NEMA 7 rated enclosure. This switch is therefore ideal for an alarm or ventilation fan circuit that is dedicated and will remain active or powered separately from other equipment power sources.

The switch features a DPDT snap action contact activated by a bi-metal temperature sensor and controlled by a manually adjusted dual temperature scale dial.

For more information or switch selection assistance, please contact a Bebco Sales Associate.

Custom Switch Labels are available upon request!



Model TAS-2 EXPLOSION PROOF ALARM SWITCH



Model TAS Temperature Activated Switches

Adjustable Switches for Activation of Local Devices or Remote Monitor Systems

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Temperature Alarm

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Bebco Environmental Hazardous & Industrial Climate Control Solutions

Installation Recommendations

SWITCH LOCATION

- 1. Isolate switches from radiant heat sources, such as adjacent devices, heaters or surfaces exposed to direct sunlight.
- 2. Place switches in an area which will best represent the space's average temperature.
- 3. Ensure that the switch Alarm Temperature Setting Adjustment Dial is easily accessible.

WIRING METHODS

- 1. Install all wiring in accordance with the National Electric Code and all Local Requirements.
- 2. Utilize approved conduit seals for all alarm device or fan unit wiring circuit connections to Model TAS-2 Switches.
- Provide a dedicated power source for alarm circuits, that are separate 3 from all other equipment or device power circuits.
- 4. Utilize fail-safe closed loop wiring that opens to alarm for remote alarm monitors, to detect alarm event or broken alarm wires.
- 5. Ensure that local alarm devices are properly grounded.

Typical Alarm Circuit Wiring

The wiring diagrams below are for high temperature alarms, where the snap action switch changes state and a resulting alarm signal occurs when temperature within a space rises above the switch set-point.

To use these switches for low temperature alarms, simply connect the alarm device to the NO contact, so that the snap action switch changes state and a resulting alarm signal occurs when temperature within a space falls below the switch set-point.



Fail-Safe Remote Alarm Monitor Wiring



Typical Ventilation Fan Circuit Wiring



Technical Specifications

Model TAS-1

Housing: **Electrical Rating:** Cover Screws: Coil Bulb Finish: **Electrical Connections:** Mounting Provisions: Switch Action: Switch Type: Control Range: Dimensions: Sensor Type: Display: Differential: Voltage Range: Inductive Amps @ 120 VAC: Inductive Amps @ 240 VAC: Full Load Amps @ 120 VAC: Full Load Amps @ 240 VAC: Resistive Amps @ 120 VAC: Resistive Amps @ 240 VAC: Certification:

2 Pc. NEMA 4x Grey Polyurethane Weather Tight Ordinary Location **Chrome Plated Steel** Plastic Coated Two (2) 1/2" Conduit Knockouts Four (4) 10/32 Screw Tabs Open / Close on Rise or Fall One (1) SPDT Snap Action 30° to 110° F (-1° to 43° C) 7" High x 3.25" Wide x 3.5" Deep Coil Bulb Hydraulic Analog 3° to 12° F Adjustable 120 to 240 VAC 16 8 16 8 22 22 UL Listed

Model TAS-2

Housing:	NEMA 7 Cast Aluminum
Electrical Ratings:	Class I, Divisions 1 & 2 Groups C & D
-	Class I, Zones 1 & 2 Groups IIA & IIE
	Class II, Division 1 Groups E, F & C
	Class II, Division 2 Groups F & G
Electrical Connections:	Two (2) 3/4" NPT Conduit
Mounting Provisions:	Two (2) 9/32 Mounting Holes, Left & Right
Tolerance:	Heat 2° F / Cool 4° F
Switch Action:	Open / Close on Rise or Fal
Switch Type:	One (1) DPDT Snap Actior
Control Range:	50° to 90° F (10° to 32° C)
Dimensions:	5.65" High x 6.375" Wide x 4.5625" Deep
Sensor Type:	Bi-Meta
Display:	Analog
Differential:	+/- 3° F
Voltage Range:	120 to 277 VAC
Inductive Amps @ 120-277 VA	C: 22
Certification:	UL Listed

Please specify preferred label wording at time of order.

Manufacturer's Installation Manual included and available on request