SERIES 08-03

Precision Snap Disc Thermostats

High Temperature Surface Mounting Type

FEATURES

- Ratings to 10A at 240VAC
- 100,000 Cycle Rating
- UL Component Recognized
- CSA Certified
- CE Compliant
- Automatic Reset
- Tamper-Proof Preset Temperature Calibrated Settings from 240 to 550°F (116 to 288°C)





APPLICATIONS

- Food Processing
- Ovens
- Packaging
- Copiers
- Plastic Processing

DESCRIPTION

A positive-acting bimetal snap disc serves as the actuating element in these rugged, precision thermostats. As temperature reaches the tamper-proof predetermined set point, the disc snaps to provide rapid, positive contact action minimizing radio frequency interferences.

These UL recognized thermostats are individually calibrated and tested to meet both thermal and electrical characteristics. The single contact switch arm assembly minimizes failures due to contact contamination, while the fine silver contacts assure long life and excellent current carrying capacity. Resistance to vibration and harsh environments are additional features.

Many terminations and mounting assemblies are available to permit great flexibility in installation.

Series 08-03 units are designed for high temperature applications up to 550°F/288°C. The ceramic base materials and stainless steel cap provide excellent resistance to high temperature environments and keep the switch assembly free from dust and foreign particles.

TEST SAMPLES

Operating samples can be supplied for application tests. A completed Fenwal Snap Disc Application Data Form is required to select and produce an operating sample.

Application Data Forms are available at www.fenwalcontrols.com or your local Fenwal sales representative.

The following models are normally available from stock.

Normally Closed Contacts - Open on Rise				
P/N	Mounting	Terminals	Opens °F	Close °F
08-033024-019	Fixed	T7	400	360
08-033024-032	Fixed	T7	550	425
08-033024-106	Fixed	T7	500	440

SPECIFICATIONS

Switch Action

SPST (normally open or normally closed)

Dielectric Strength

1500 VAC terminals to case.

Insulation Resistance

100 Megohms minimum 500VDC.

Vibration

MIL-STD-202D, Method 204B, 10 G's.

Shock

MIL-STD-202D, Method 213A

Test Condition K, 30 G's, 11 millisec

Table 1: Ranges and Tolerances				
Temperature Ranges	Tolerances		Differential (Nominal)	Ambient Range
	Open	Closed		
240-300°F	±7°F	±8°F	25°F	-50 to 600F 46 to 316C
116-148°C	±4°C	±4.5°C	14°C	
301-400°F	±10°F	±15°F	40°F	
149-204°C	±6°C	±8°C	22°C	
401-500°F	±20°F	±25°F	60°F	
205-260°C	±11°C	±14°C	33°C	
501-550°F	±25°F	±30°F	125°F	
261-288°C	±14°C	±17°C	69°C	

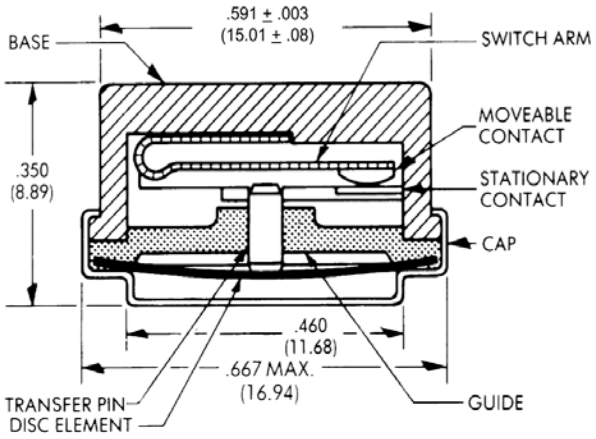
Note: Differences between customer and manufacturer temperature testing procedures and equipment can result in temperature variance.

Table 2: Electrical Ratings (Resistive)				
120VAC	240VAC	30VDC	Cycles	Approvals
10A	10A	2A	100,000	
5A	5A			
120VAC	120VA			

and units rated for AC operation only.
U.L. File E18974, Guide XAPX2
C.S.A. File LR 7378, Class 4823 02.

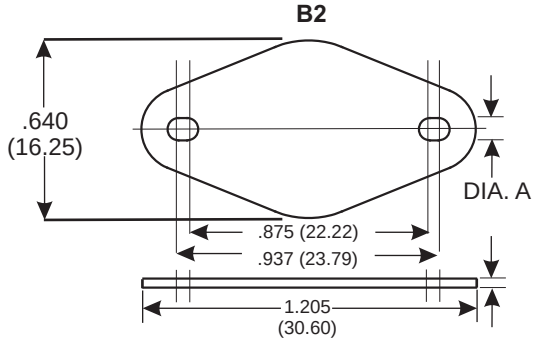
Table 3	
Mounting Bracket	**Lead Wires (specific length)**
B1 - No Bracket (Cap Only)	L1 - No Lead Wires
B2 - Bottom Oval Flange	L3 - 200°C TFE, 18 AWG, 300V insulation
B6 - Stud Mounting Screw	L4 - 250°C TGGT, 18 AWG, 300V insulation
Mounting Hardware Size	**Terminals Positions**
H1 - No hardware (use B1)	T1 - Eyelet, opposed horizontal
H4 - #6 screw for flange mounting	T2 - Eyelet, opposed vertical
H6 - #6 screw for stud mounting	T3 - Eyelet, parallel horizontal
Cap and Mounting Flange Material	T6 - 1/4" Quick Connect, opposed horizontal
C3 - Stainless Steel	T7 - 1/4" Quick Connect, opposed vertical
	T10 - Leads, opposed horizontal
	T11 - Leads, opposed vertical
	T12 - Leads, parallel horizontal
	T13 - Leads, parallel vertical

OUTLINE DIMENSIONS

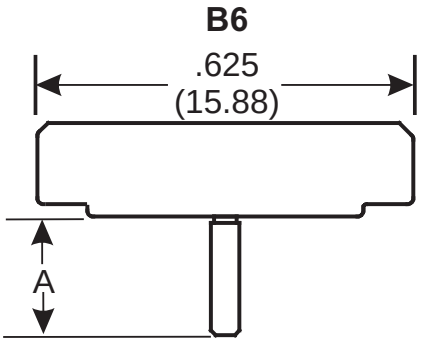


MOUNTING BRACKETS AND MOUNTING HARDWARE SIZE

Note: Dimensions in brackets are in millimeters. Specifications are subject to change without notice.

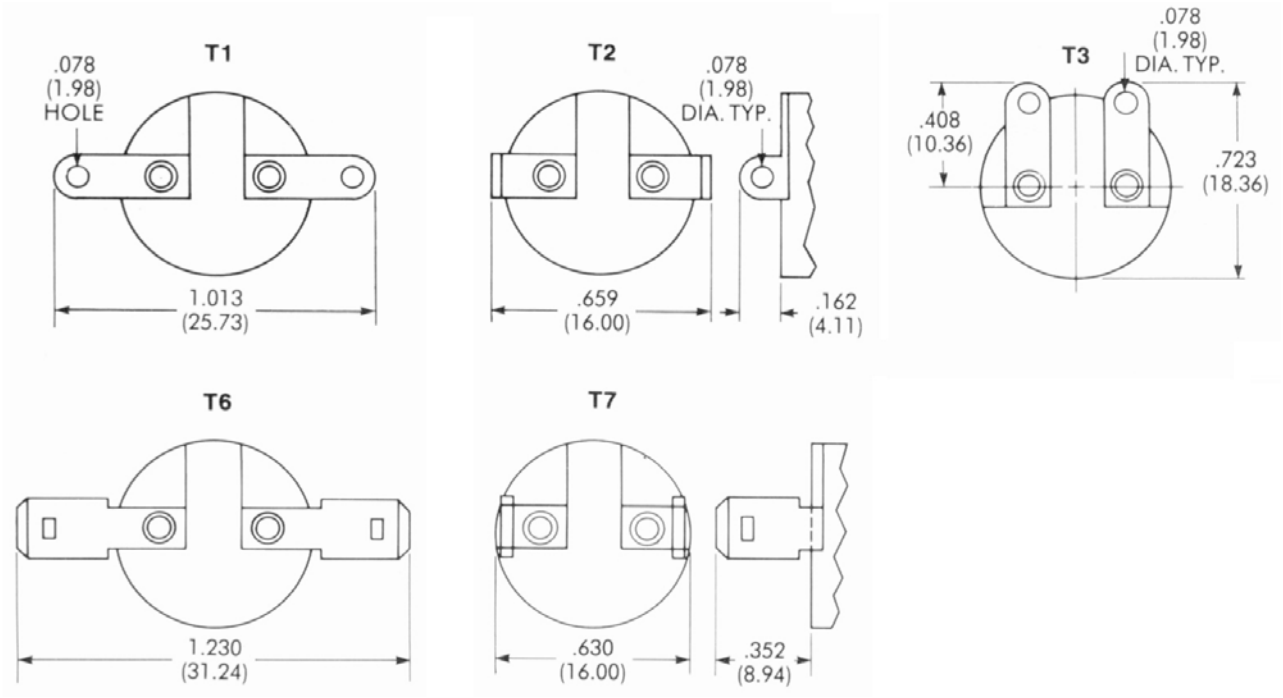


Hardware Size	Dim. A
H4	.143 (3.63)



Hardware Size	Dim. A
H6	6-32 x 3/8"

TERMINALS AND POSITIONS



HOW TO ORDER

To more clearly define specific requirements, please complete a Fenwal Snap Disc Application Data Form, available at www.fenwalcontrols.com or your local Fenwal representative.

To order:

1. Specify opening and closing temperatures in degrees Fahrenheit or Celsius with tolerances; and whether the switch should open or close on temperature rise.
2. Specify terminals and mounting configurations by selecting one code number from each category in Table 3. If lead wires are required, specify length.

EXAMPLE: 08-03; open at 300°F, close at 275°F, B2, C3, H4, T1, L1 = Series 08-03 thermostat set to open at 300°F + 7°F on temperature rise, close at 275°F +8°F on temperature drop. Bottom oval flange mounting bracket; stainless steel camp and mounting flange material; holes to accept #6 mounting hardware (not supplied); eyelets, opposed horizontal; no lead wires.

This literature is provided for informational purposes only. KIDDE-FENWAL, INC. assumes no responsibility for the product's suitability for a particular application. The product must be properly applied to work correctly. If you need more information on this product, or have a particular problem or question, contact KIDDE-FENWAL, INC.

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