Snap Action Thermostat KSD301

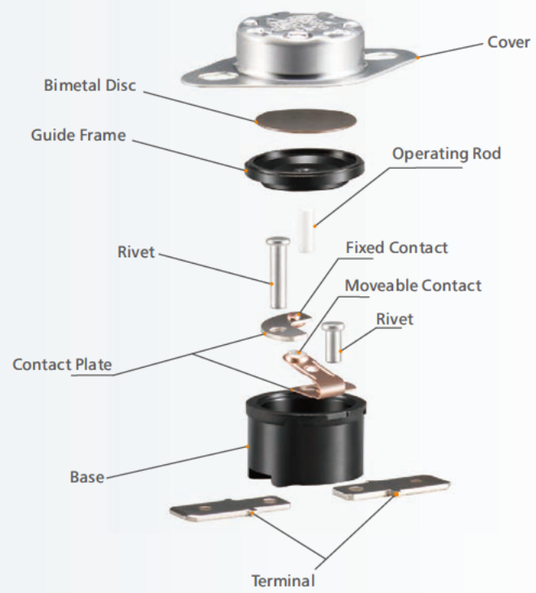
- Coffee maker
- Toaster
- Microwave oven
- Heating
- Portable Refrigerator
- Water dispenser
- Electric pad
- Portable freezer

KSD301 Series

KSD301 series snap-action bimetal thermostat is a kind of miniature hermetically sealed bimetal thermostat (1/2" disc). It is of single-pole single-throw structure and works under resistive load.
KSD301 bimetal thermostat is in wide use in a great variety of compact type home appliances with automatic reset or manual reset to provide temperature control or temperature protection.

Installations

- Method of earth: By means of the metal cup of thermostat connected in the earthing metal part.
- The thermostat should work in environment with humidity not higher than 90%, free of caustic, flammable gas and conducting dust.
- When the thermostat is used to sense the temperature of solid items, its cover should be clung to the heating part of such items. Meanwhile, heat conducting silicon grease, or other heat media of similar nature, should be applied to the cover's surface.
- If the thermostat is used to sense the temperature of liquids or steam, it is strongly recommended to adopt a version with stainless steeled cup. Moreover, cautious measures should be taken to prevent liquids getting into/onto the thermostat's insulation parts.
- The top of the cup must not be pressed to sink, so as to avoid adverse effect on the thermostat's temperature sensitivity or its other functions.
- Liquids must be kept out of the thermostat's inner part! The base must avid any force that could lead to crack; it should be kept clear and away from the pollution of electric substance to prevent insulation weakening that leads to short circuited damages.
- The terminals should be bent, or else, the reliability of electric connection will be influenced.



Specification

- Electrical Rating:16A 125V AC (Resistive Load)
  10A 250V AC (Resistive Load)
  16A 250V AC (Resistive Load)
- Operating Temp:50 ~ 175°C (UL.CUL 205°C)
- Differential:10~30K (15K Standard)
- Temp. Tolerance:Operating Temp. 3K 5K
- Heat Durability:220°C Max. (PPS)
- Circuit Resistance:50mO Max.
- Insulation Resistance:100MO Min.at DC500V
- Dielectric Strength: AC 1000V for One Minute.
  or AC 1800V for One Second.
- Operating Life:100000 Cycles (16A 125V/10A 250V AC)
  10000 Cycles (16A 250V AC)

How To Order

MODEL CODE (FULL CODE)

KSD301 A 110 B C F 2 C

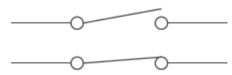
- **Material:** Blank Bakelite, C Ceramics
- (e) **Terminal Size** Please Refer Fig.(e)
- (d) **Terminal Orientation** Please Refer Fig.(d)
- (c) **Bracket Type** Please Refer Fig.(c)
- (b) **Temp.Tolerance** Please Refer Fig.(b)
- **Operating Temp**
- (a) **Contact Type** Please Refer Fig.(a)
- **Model**

(a) Contact Type

A = Contact Opens When Temperature Rises to Set Point (Normally Closed)

B = Contact Closes When Temperature Rises to Set Point (Normally Open)

M = Manual Reset



(b) Temp. Tolerance (*=STANDARD)

Grade	A	B
Action ±℃	3	5
Reset ±℃	4	8

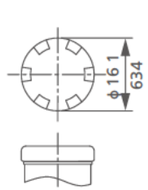
- The Grade of Temp. Tolerance is "A", When The Operating Temp. is Less Than 105°C.
- The Grade of Temp. Tolerance is "B", When The Operating Temp. is Over 106°C.

Specifications subject to change without notice

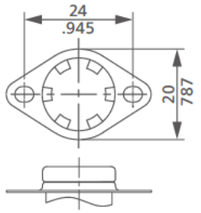
(c) Bracket Type

• Fixed Bracket
*Stainless Steel CAP: D,DL,V,T TYPE

Screw Type: M4x0.7 L:6mm(STD)
M5x0.8 L:6mm(STD)
6-32UNC
8-32UNC



C TYPE



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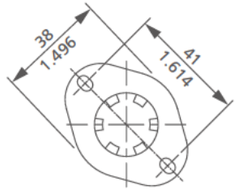

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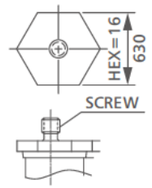

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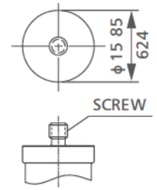

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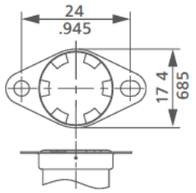
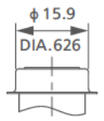
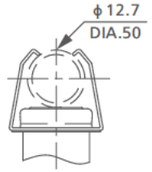


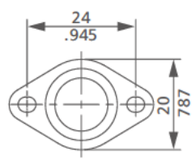
X TYPE



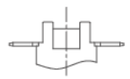
*D TYPE



*DL TYPE



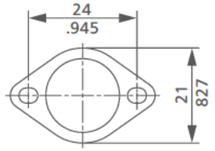
*V TYPE



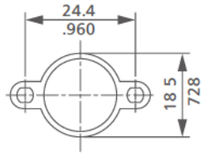
P TYPE
(OPEN CAP)
(4 POSTS SHELL)

mm
inch

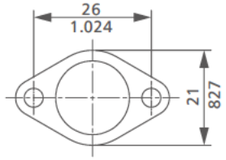
• Loose Bracket
*Stainless Steel CAP: U TYPE



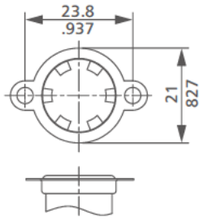
0 TYPE



*U TYPE



M TYPE



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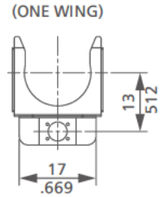


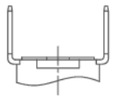
G TYPE

mm
inch

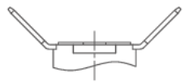
Specifications subject to change without notice

(d) Terminal Orientation

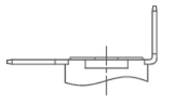
F TYPE
(0°)



R TYPE
(90°)

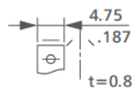


T TYPE
(45°)



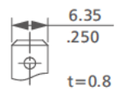
L TYPE
(90°X1)

(e) Terminal Size



TYPE 1

Amp#187 TAB



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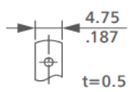

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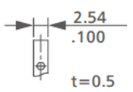
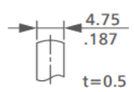
SOLDER TAB



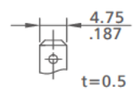
TYPE 4

DIP TAB



TYPE 6

WELD TAB



TYPE 7

Amp#187 TAB

mm
inch