

KSD307-T | Self-hold 1/2" Disc PTC Thermal Cut-out

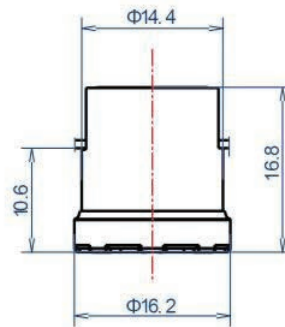


The KSD307-T series of 1/2" (13mm) self-hold bimetal disc thermostat from Calco Electric Corp offers proven reliability in a wide range of applications. The self-hold construction is integrated with a PTC heater which is electrically located across the contacts. When the contacts are closed, the PTC heater is shunted and therefore not energized. When the contacts are open, the PTC heater is placed in series with the load and is energized to keep the temperature sensitive bimetal in an actuated state. To reset the temperature sensing control, power to the device must be cycled off for sufficient time to allow the assembly to cool to a temperature below the reset point of the bimetal switch. Based on the operational sequence, the KSD307-T is considered having a "manual reset-like" feature although no user actuating mechanism is present.

Features and Benefits

The KSD307-T features include:

- Easy mounting
- Rapid heat transmission
- High durability
- High precision



Dimension
of the Main Body

General Electrical Ratings

The KSD301-M series of controls has been rated by major agencies throughout the world. The agency ratings can be used as a guide when evaluating specific applications. However, the mechanical, electrical, thermal and environmental conditions to which a control may be exposed in an application may differ significantly from agency test conditions. Therefore, the user must not rely solely agency ratings, but must perform adequate testing of the product to confirm that the control selected will operate as intended in the user's application.

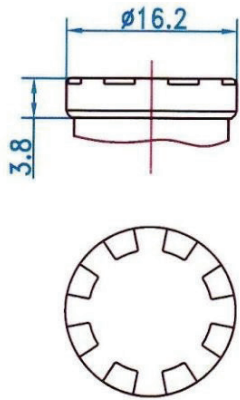


Phone: 330-966-3796
Fax: 330-408-7085
sales@calcoelectric.com
2381 Locust St. S., Unit #6
Canal Fulton, OH 44614
www.calcoelectric.com

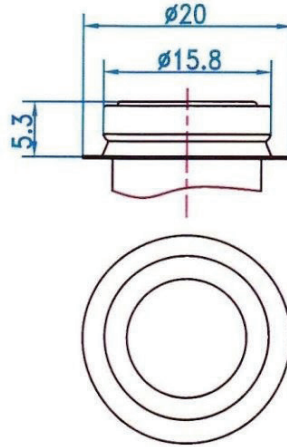
KSD307-T | Self-hold 1/2" Disc PTC Thermal Cut-out

Type and Dimension of Cover

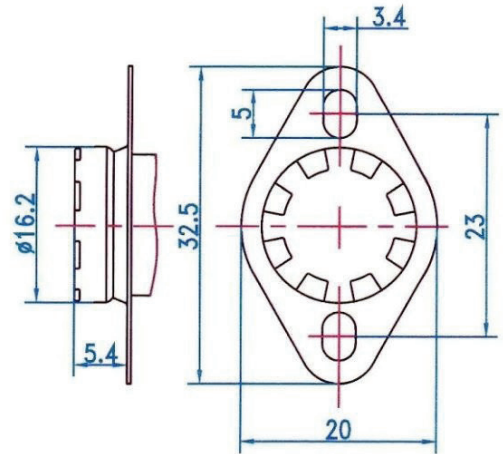
The materials of cover include aluminium and stainless steel. If the thermostat is used to sense the temperature of liquids or steam, the stainless steel unit should be used with this application.



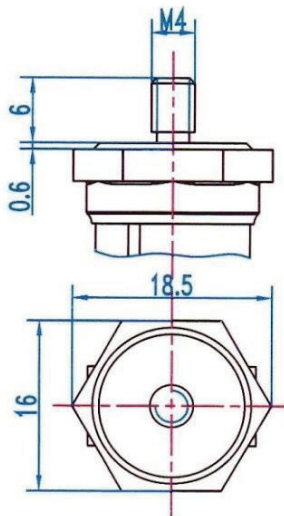
B. Aluminum



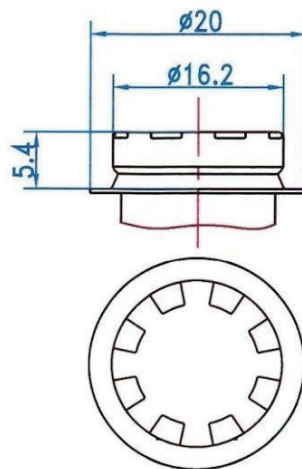
C. Stainless Steel



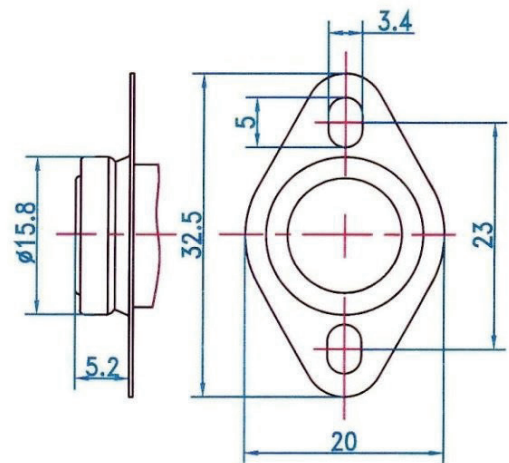
D. Aluminum



L*. Aluminum



F. Aluminum



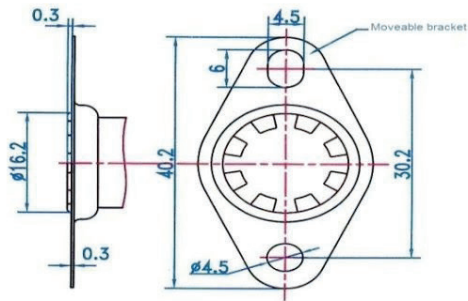
H. Stainless Steel



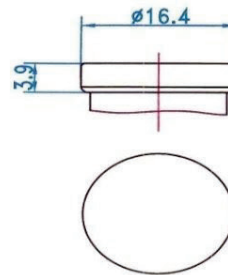
Phone: 330-966-3796
Fax: 330-408-7085
sales@calcoelectric.com
2381 Locust St. S., Unit #6
Canal Fulton, OH 44614
www.calcoelectric.com

KSD307-T | Self-hold 1/2" Disc PTC Thermal Cut-out

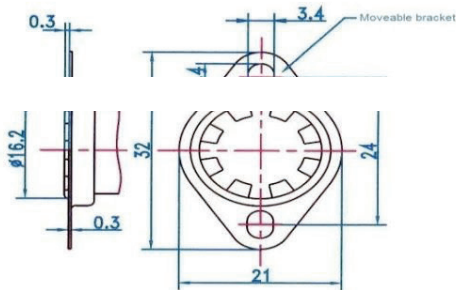
BF. Al Cover with Long Bracket



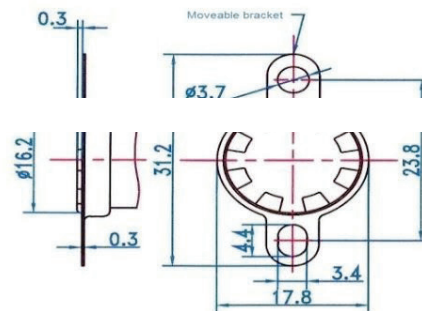
M. Al Cover



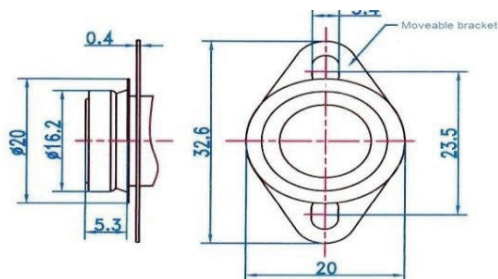
BL. Al Cover with Bracket



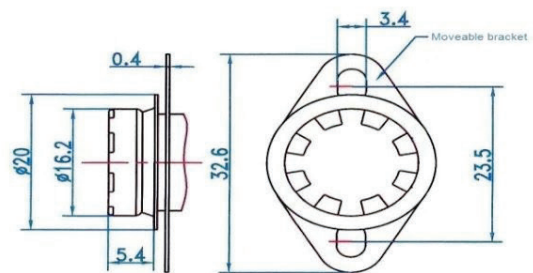
BC. Al Cover with Small Bracket



CE. Stainless Steel Cover with Bracket



GE. Al Cover with Bracket

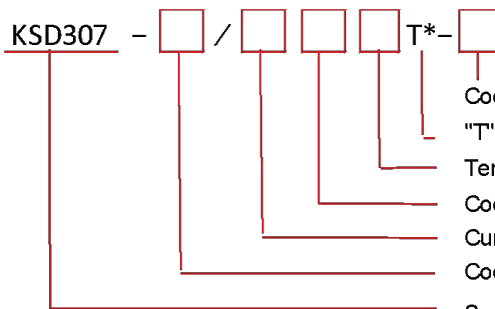


Phone: 330-966-3796
 Fax: 330-408-7085
 sales@calcoelectric.com
 2381 Locust St. S., Unit #6
 Canal Fulton, OH 44614
 www.calcoelectric.com

KSD307-T | Self-hold 1/2" Disc PTC Thermal Cut-out

Contact	SPST, normally closed
Rated voltage/rated current	125V/16 Amps 250V/10 Amps
Number of switching cycles at rating loading	10,000 cycles
Range of rated switching temperatures	50°C ~ 170°C
Switching temperature tolerance	±5°C
Switching differential	Manual reset, voltage maintained
Speed of temperature changes to determine switching temperature	0.5°C/minute
Thermal resistance	Max 210°C/1 minute
Temperature limit of the switch head	190°C
Temperature of the mounting face	190°C
Degree of protection	IP 30, UL open type device
PTI of material used for insulation	250V
Rated impulse voltage	2500V
Contact resistance	≤20mΩ
Construction	For incorporation in Class I equipment

Nomenclature



Code for special requirement: It stands for the code of sub-series and other special requirements.

"T" "T*" PTC 1/100, "T5" PTC 500Ω

Terminal code: Single figures are adopted to denote the terminal type.

Code for cover: A single or double digit is adopted to denote the type of cover.

Current rating: In number.

Code for temperature requirement: In number; 1/10 of nominal operating temperature.

Series No.

Installation and Direction

- Method of grounding: By means of the metal cup of the thermostat connected in the grounding metal part.
- The thermostat should work in an 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 silicone 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 highly recommended to use the stainless steel cup version. Take precautions to prevent liquids from getting into the thermostat's insulated parts.
- The top of the cup must not be pressed or dented. This will cause an adverse effect on the thermostat's temperature sensitivity and will not allow it to function properly.



Phone: 330-966-3796
Fax: 330-408-7085
sales@calcoelectric.com
2381 Locust St. S., Unit #6
Canal Fulton, OH 44614
www.calcoelectric.com