1/2" DISC BIMETAL THERMOSTAT

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.

Technical Parameters:

- Rated Current: 5A/10A/16A (Resistive)
- Reset Type: Automatic/Manual
- Max OT: Resin:180°C/ Ceramic:220°C
- Resistance Between Terminals: Below $50m\Omega$
- Insulation Resistance: With a DC 500V megger, borne DC 500V, the tested value is over $10m\Omega$
- Class of Temperature Characteristics:

Normal Type/Normal Close: OFF temperature higher than ON temperature

K Type/Normal Open: ON temperature higher than OFF temperature

One-shot type: The thermostat switches on at room temperature and it won't be able to reset after switching off Manual Reset

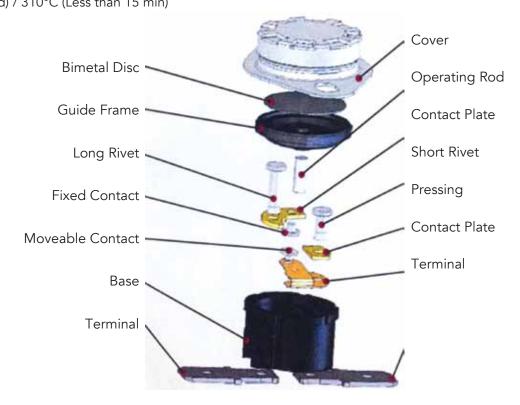
- Maximum Ambient Temp: ambient temperature

Resin: 205°C (Long period) /235°C (Less than 15 min) Ceramic: 280°C (Long period) / 310°C (Less than 15 min)

- Certifications: UL/CQC/TUV

Applications:

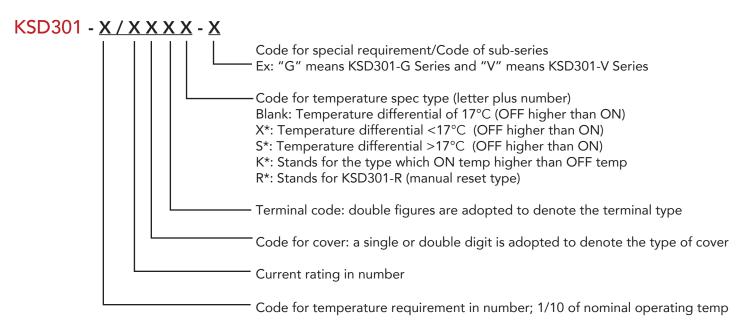
- Coffee maker
- Toaster
- Microwave oven
- Heating
- Portable Refrigerator
- Water dispenser
- Electric pad
- Portable freezer





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Code System:



Installations:

- 1. Method of earth: By means of the metal cup of thermostat connected in the earthing metal part.
- 2. The thermostat should work in environment with humidity not higher than 90%, free of caustic, flammable gas and conducting dust.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. The terminals should be bent, or else, the reliability of electric connection will be influenced.



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	Tmax. Of various OT						
	OT 2 50	OT:51~10	OT:101~14 5	OT:146~16 0	OT:161~19	OT:191~23	OT:231~28
KSD301 KSD301-V KSD301-R	100(L)	140(L)	185(L)	205	5(L)	-	
KSD301-G KSD301-R-G	100(L)	185(L)	205(L) 245(L)		280(L)	320(L)	
KSD301-G4 For coffer maker)	_	-	220(L)	(≥111□)		_	

L: Long period S: Less than 15 min

	Min. Diff.					
Range of OT.	Working current ^c ⁄ ₂ 4A	Working current 4.1~8A	Working current 8.1~12A	Working current		
² 2100°C	6°C	8°C	10°C	12°C		
101~145°C	10°C	12°C;	14°C	17°C		
146~160°C	13°C	15°C	17°C	20°C		
161~180°C	16°C	18°C	20°C	25°C		
181~200°C	20°C	22°C	25°C	30°C		
201~230°C	25°C	27°C	30°C	35°C		
>230°C	30°C	32°C	35°C	40°C		

Tolerance of OFF Temperature

		Limit of tolerance		
Range of OT	Common Diff.	Auto-reset	Manual reset	
2 100°C	±3.0°C	±2.0°C	±2.5°C	
101~145°C	±3.5°C	±2.5°C	±3.0°C	
146~160°C	±4.0°C	±3.0°C	±3.5°C	
161~180°C	±4.5°C	±3.5°C	±4.0°C	
181~200°C	±5.0°C	±4.0°C	±4.5°C	
201~230°C	±5.5°C	±4.5°C	±5.0°C	
>230°C	±6.0°C	±5.0°C	±5.5°C	



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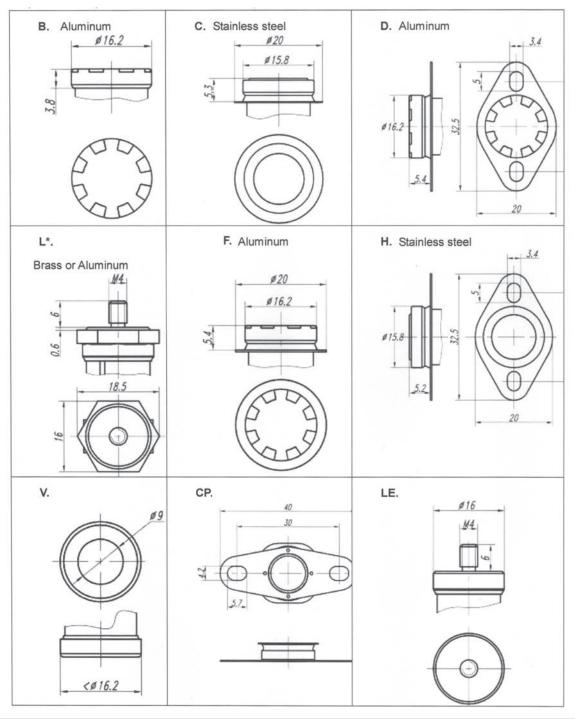
Range of Diff.	Range of OFF temp.	Common tolerance	Limit of the tolerance	
<u>c</u> 7.5°C	<u>წ</u> 100°C	±4°C	±3°C	
	<u>\$</u> 100°C	±4.5°C	±3.5°C	
7.6~15°C	101~145°C	±5°C	±4°C	
	146~160°C	±6°C	±5°C	
	<u>¢</u> 100°C	±5°C	±4°C	
	101~145°C	±6°C	±5°C	
15.1~30°C	146~160°C	±7°C	±6°C	
	161~190°C	±9°C	±8°C	
	191~230°C	±11°C	±10°C	
	£100°C	±6.5°C	±5.5°C	
	101~145°C	±7.5°C	±6.5°C	
30.1~45°C	146~160°C	±8.5°C	±7.5°C	
	161~190°C	±10.5°C	±9.5°C	
	191~230°C	±12.5°C	±11.5°C	
	<u>¢</u> 100°C	±8°C	±7°C	
	101~145°C	±9°C	±8°C	
45.1~60°C	146~160°C	±10°C	±9°C	
	161~190°C	±12°C	±11°C	
	191~230°C	±10°C ±12°C ±14°C	±13°C	
	<u>\$</u> 100°C	±9.5°C	±8.5°C	
	101~145°C	±10.5°C	±9.5°C	
60.1~75°C	146~160°C	±11.5°C	±10.5°C	
	161~190°C	±12°C	±11°C	
	191~230°C	±14°C	±13°C	
75.1~90°C	<u>¢</u> 100°C	±11°C	±10°C	
	101~145°C	±12°C	±11°C	
	146~160°C	±13°C	±12°C	
	161~190°C	±15°C	±14°C	
	191~230°C	±17°C	±16°C	
00.1.10500	ξ100°C	±12.5°C	±11.5°C	
90.1~105°C	101~145°C	±13.5°C	±12.5°C	



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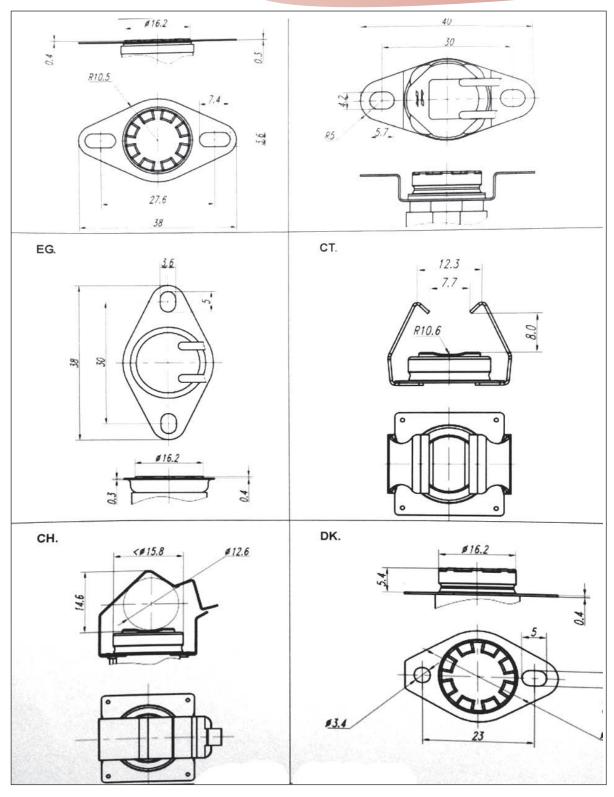
Type and Dimension of Cover and Terminal:

The materials of cover include aluminum, brass, and stainless steel. If the thermostat is used to sense to temperature of liquids or steam, it should use the stainless version.



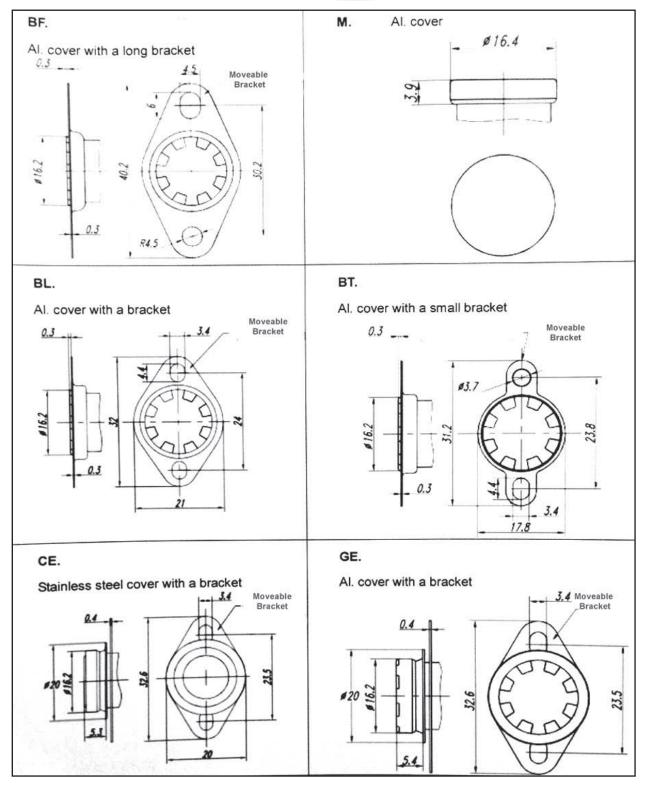


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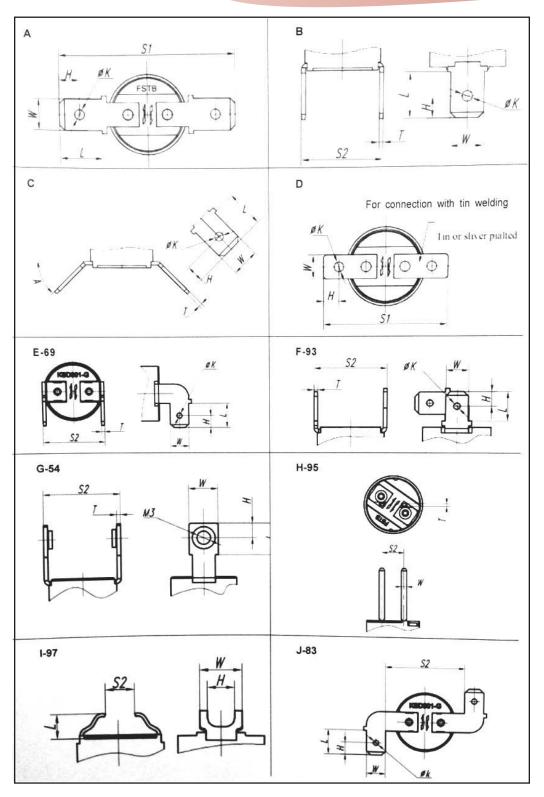


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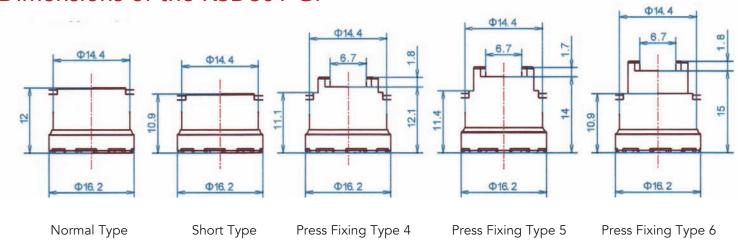
KSD301-G BIMETAL THERMOSTAT

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Shown: KSD301-G - Auto-reset type, ceramic base; OT 220°C Max



Dimensions of the KSD301-G:



CALCO

KSD301-V BIMETAL THERMOSTAT

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Shown: KSD301-V - Auto-reset type, resist heat resin base; OT 180°C Max



