



Bimetallic Thermostat Digital Temperature Controller Ksd301 Electronic Components CQC Certification

Our Product Introduction

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Basic Information

- Place of Origin: Dong Guang
- Brand Name: LinKun
- Certification: UL ROHS
- Model Number: KSD301Thermostat
- Minimum Order Quantity: 500
- Price: USD: 0.1-0.25
- Packaging Details: 100PCS/Bag
- Supply Ability: 1000000PCS/Month



Product Specification

- Rated Current: 10A 16A
- Rated Voltage: 110V /125V/250V
- Case: Bakelite Or Ceramic
- Type: Normal Closed Or Normal Open
- Terminal Size: 6.3mm
- Bracket: Fixed Or Movable
- Terminal Direction: Horizontal Or Vertical
- Action Temperature: 20°C To 180°C
- Tolerance: $\pm 5^{\circ}\text{C}$
- Operation Cycles: 30000 Times
- Special Recommendation: KSD301 Bimetallic Thermal Protector, 6.3mm Bimetallic Thermal Protector, Bimetallic KSD301 Thermal Switch



More Images



KSD301 Thermostat 30°C 350°C 16A 125v Temperature Switch Thermostat Thermal Protector**KSD301/302/303/305 temperature control switch****-30°C ~ 300°C full series various shapes available**

KSD301 snap action thermostat is small-size bimetal thermostat series with a metal cap, which belongs to thermal relays' family. The main principle is that one function of bimetal discs snap action under the change of sensing temperature. The snap action of disc can push the action of the contacts through the inside structure, then caused on or off of the circuit finally. The main characteristics are the fixation of working temperature, the reliable snap action, less flashover, longer working life and less radio interference.

Technical parameters

Rated current(Ir): 10A, 16A;

Rated voltage(Ur): AC250V;

Action temperature Tolerance: $\pm 5^{\circ}\text{C}$

Electric intensity: AC2000V 50/60Hz for 1min; no breakdown and no flashover

Contact resistance: 50m Ω Insulation resistance: 100M Ω Response speed: $\leq 1^{\circ}\text{C}/\text{min}$

Operation cycles: 30000 times

Temperature characteristics comparison table (see the table below):

Action temperature	Reset temperature	Action temperature	Reset temperature
20 $\pm 5^{\circ}\text{C}$	5 $\pm 10^{\circ}\text{C}$	125 $\pm 5^{\circ}\text{C}$	95 $\pm 15^{\circ}\text{C}$
30 $\pm 5^{\circ}\text{C}$	10 $\pm 10^{\circ}\text{C}$	130 $\pm 5^{\circ}\text{C}$	100 $\pm 15^{\circ}\text{C}$
45 $\pm 5^{\circ}\text{C}$	40 $\pm 10^{\circ}\text{C}$	135 $\pm 5^{\circ}\text{C}$	105 $\pm 15^{\circ}\text{C}$
50 $\pm 5^{\circ}\text{C}$	40 $\pm 10^{\circ}\text{C}$	140 $\pm 5^{\circ}\text{C}$	110 $\pm 15^{\circ}\text{C}$
55 $\pm 5^{\circ}\text{C}$	45 $\pm 10^{\circ}\text{C}$	145 $\pm 5^{\circ}\text{C}$	115 $\pm 15^{\circ}\text{C}$
60 $\pm 5^{\circ}\text{C}$	50 $\pm 10^{\circ}\text{C}$	150 $\pm 5^{\circ}\text{C}$	120 $\pm 15^{\circ}\text{C}$
65 $\pm 5^{\circ}\text{C}$	50 $\pm 10^{\circ}\text{C}$	155 $\pm 5^{\circ}\text{C}$	125 $\pm 15^{\circ}\text{C}$
70 $\pm 5^{\circ}\text{C}$	50 $\pm 10^{\circ}\text{C}$	160 $\pm 5^{\circ}\text{C}$	130 $\pm 15^{\circ}\text{C}$
75 $\pm 5^{\circ}\text{C}$	55 $\pm 10^{\circ}\text{C}$	165 $\pm 5^{\circ}\text{C}$	135 $\pm 15^{\circ}\text{C}$

80±5℃	55±10℃	170±5℃	140±15℃
85±5℃	55±10℃	175±5℃	145±15℃
90±5℃	60±10℃	180±5℃	150±15℃
95±5℃	65±10℃	185±5℃	160±15℃
100±5℃	75±10℃	190±5℃	165±15℃
105±5℃	80±15℃	200±5℃	170±15℃
110±5℃	80±15℃	210±5℃	175±15℃
115±5℃	85±15℃	215±5℃	180±15℃
120±5℃	90±15℃	220±5℃	185±15℃

Internal structure and working principle



The exterior shape and dimensions of the product

Different devices are suitable for different appearance temperature control

Technical drawing of a KSD501 temperature controller, showing three views: Front view, Back view, and Side view.

Front View Dimensions:

- Top width: 4.5
- Top mounting hole offset: 3.4
- Right side width: 2.4
- Bottom width: 34
- Bottom mounting hole offset: 6.3/4.8
- Left side hole diameter: $\phi 18$
- Right side hole diameter: $\phi 16$
- Internal label: KSD501 B50V10A
- Internal feature: R4

Back View Dimensions:

- Overall height: (32)

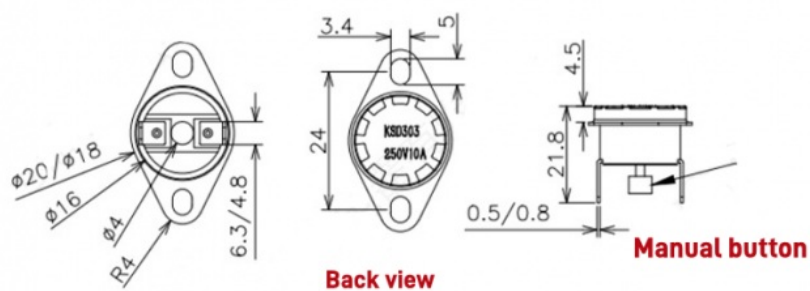
Side View Dimensions:

- Overall height: 13.1
- Mounting flange thickness: 0.5/0.8
- Top flange diameter: $\phi 20$
- Bottom flange diameter: $\phi 16$

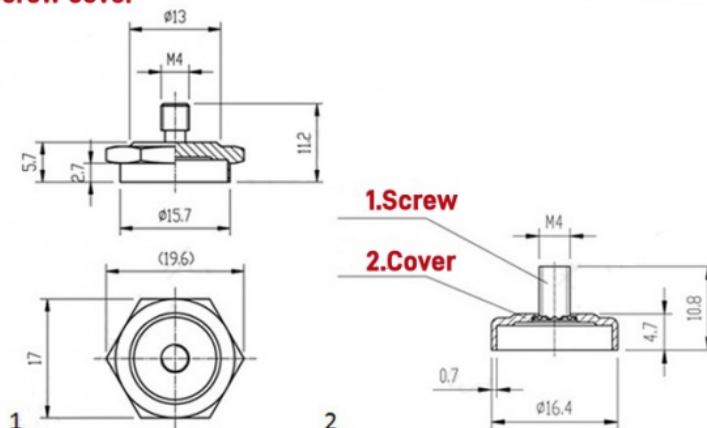
The technical drawing illustrates the KSD301 250V10A thermal switch in three views:

- Front View:** Shows the circular face with a central screw terminal. Dimensions include a total diameter of 34, a mounting hole diameter of 5, a terminal hole diameter of 3.4, and a terminal height of 6.3/4..8.
- Back View:** Shows the mounting bracket with a central screw hole. Dimensions include a central hole diameter of $\phi 20/\phi 18$, a mounting hole diameter of $\phi 16$, and a radius of R4.
- Side View:** Shows the profile of the switch with a total height of 12 and a mounting bracket height of 5.

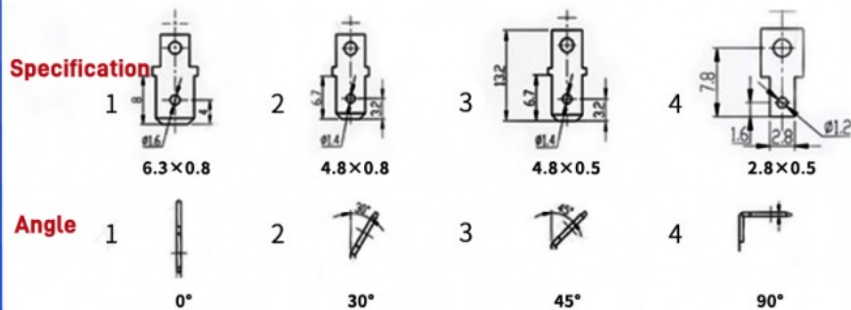
1.4 Bend-foot fixing ring with manual button



1.5 Screw cover



Terminal selection



Material 1. Nickel-plated copper 2. Brass 3. Nickel-plated iron 4. Tin-plated copper 5. Stainless steel 6. Others

The above drawings are partial appearance drawings

For specific details, please consult customer service for communication and provide you with professional analysis

Product display

Complete models, complete certifications, quality assurance

1

Printing can be customized according to customer requirements



4.8 terminal
length 15.5mm



Metal sheet zero type



Small pull-wire terminal

2

Temperature selection, every 5 degrees



Bend foot 30 degree
tilt movable ring



Flat foot small ring



Bend foot movable ring
4.8 feet



Manual reset long screw



Bent foot large ring



No foot and no ring

3

**Manual reset to prevent dry-burning
temperature control switch**



KSD301 16A
ceramic bent foot



KSD301 10A
bent foot movable



KSD303 30A
flat foot fixed ring

4

Factory direct sales Quality assurance



KSD301 10A
manual reset



KSD301 M4 M5 M6
hexagonal copper head

Copper feet



KSD301 ceramic/bakelite
flat foot fixed ring

5

**For more product details,
please consult customer service**

Usage scenarios



Product series display:



Tips: The same model has different unit prices due to different specifications, temperatures, currents, quantities, etc. Please contact sales personnel for specific prices. Large quantities get better prices.



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