



## KSD305 Bimetallic Thermostat Temperature Control Switch 40A Manual Reset Overheat Protector

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: LINKUN
- Certification: UL ROHS CCC CUL VDE
- Model Number: KSD305 Thermostat
- Minimum Order Quantity: 1000PCS
- Price: Negotiation
- Packaging Details: 50PCS/Bag
- Delivery Time: 5-7 days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union
- Supply Ability: 100,000 pieces/month



### Product Specification

- Product Name: KSD305 Thermostat
- Rated Current: 40A
- Rated Voltage: 250V
- Case: Phenolic
- Type: Normal Closed Or Normal Open
- Life Cycles: 6000 Times
- Action Temperature: 50°C-140°C
- Temperature Tolerance +/- 3°C, +/- 5°C:  $\pm 3^{\circ}\text{C}, \pm 5^{\circ}\text{C}$
- Temperature Sensing Material: Bimetallic
- Highlight: KSD305 bimetal thermal switch, 40A bimetal thermostat switch, Manual Reset bimetal temperature control switch



### More Images



## Product Description

### KSD305 Bimetallic Thermostat Temperature Control Switch 40A Manual Reset Overheat Protector

#### Product Performance and Principle

The KSD305 temperature controller produced by our company is a single-pole single-throw temperature controller with a bimetallic temperature-sensing jump. The controller is divided into two types of automatic and manual reset by an insulating shell, a metal cover, a bimetal, a contact bridge, a spring, and an action rod, which constitute a unipolar normally closed switch. When the temperature change increases and reaches the preset deformation temperature of the bimetallic strip, the bimetallic strip operates to separate the contact bridge from the contact through the actuating rod, so that the switch that was originally in a normally closed state is disconnected. The cut-off temperature can be made according to the customer's needs. After the action, it needs to be manually reset to make it closed; automatic reset. When the temperature rises to the action temperature, the power is turned off and the temperature will drop. When it drops to the reset temperature, the temperature control will be closed. power ups.

Product name	Thermostat
Model	KSD305
Rated electrical performance	AC250V/50HZ,≤30A(Resistive load)
Normal electric strength	AC50Hz1250V/1min No breakdown and flashover phenomenon
Normal insulation resistance	300MΩ
Contact form	SPST (Single pole single throw)
Normal closed	The temperature rises and the contacts open
Life cycles	6000 times
Action temperature	50°C-140°C
Temperature tolerance	+/-3°C,+/-5°C(According to customer needs)
Temperature sensing material	Bimetallic materials:TP140-80,B1,PA721,E3
Connection method	Fastening screw lock
Contact material	Copper composite silver(T2+AgNi10)
Insulation materials	Phenolic PF2A-151J(b)
Structure	Built-in
Enclosure protection class	IP00
Insulation material PTI value	PTI175
Heat and flame resistance classification	B type

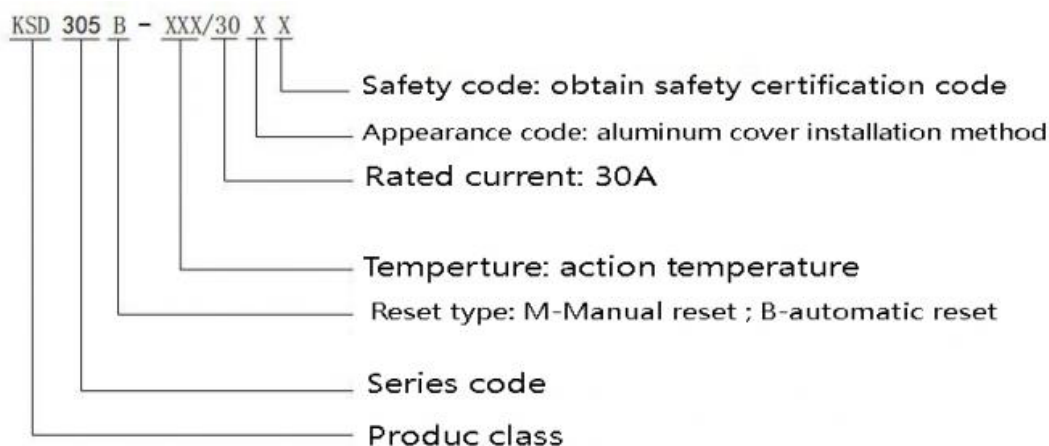
#### Notes

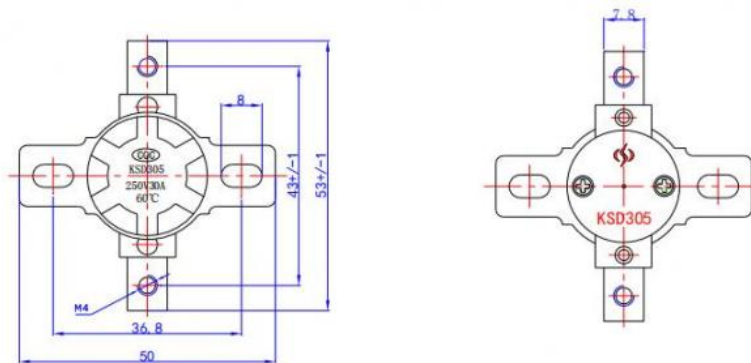
Adopt contact temperature-sensing installation, so that the metal cover plane is close to the installation surface of the heating element during installation. Do not collapse and deform the cover surface during installation, so as not to affect performance. Do not allow liquid to penetrate into the thermostat during use, so as not to affect the electrical reliability and prevent leakage damage. This product is a single-pole connection method. When using it, it should be connected correctly according to the identification symbol. The rated current used cannot be greater than 30A.

Products should be stored in a ventilated, clean, dry, and non-corrosive warehouse with a relative humidity of less than 90% and an ambient temperature of 40°C.

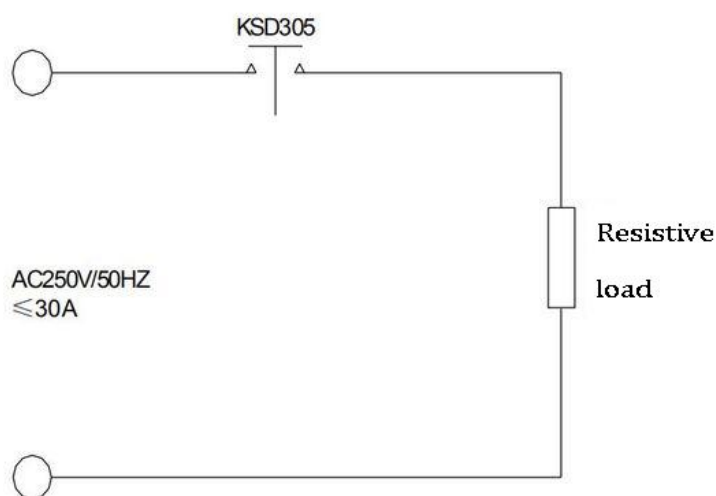
#### Scope of Application

It is suitable for electric water heaters, electric heating equipment, electric welding machines, steam generators and other high-power electrical appliances that require overheating protection.





## Wiring Diagram



## Temperature characteristics comparison table (see the table below):

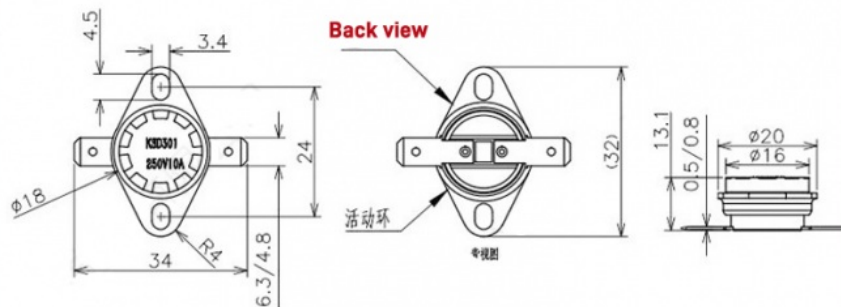
Action temperature	Reset temperature	Action temperature	Reset temperature
20±5°C	5±10°C	125±5°C	95±15°C
30±5°C	10±10°C	130±5°C	100±15°C
45±5°C	40±10°C	135±5°C	105±15°C
50±5°C	40±10°C	140±5°C	110±15°C
55±5°C	45±10°C	145±5°C	115±15°C
60±5°C	50±10°C	150±5°C	120±15°C
65±5°C	50±10°C	155±5°C	125±15°C
70±5°C	50±10°C	160±5°C	130±15°C
75±5°C	55±10°C	165±5°C	135±15°C
80±5°C	55±10°C	170±5°C	140±15°C
85±5°C	55±10°C	175±5°C	145±15°C
90±5°C	60±10°C	180±5°C	150±15°C
95±5°C	65±10°C	185±5°C	160±15°C
100±5°C	75±10°C	190±5°C	165±15°C
105±5°C	80±15°C	200±5°C	170±15°C
110±5°C	80±15°C	210±5°C	175±15°C
115±5°C	85±15°C	215±5°C	180±15°C
120±5°C	90±15°C	220±5°C	185±15°C

## The exterior shape and dimensions of the product

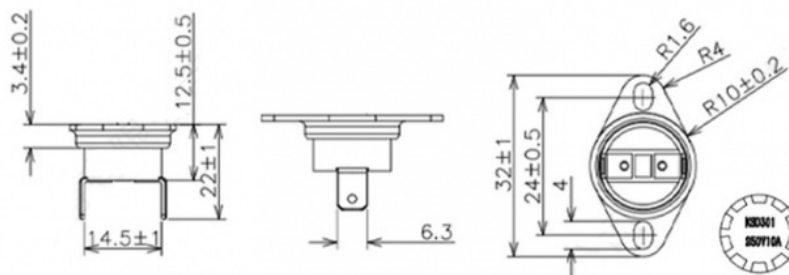
# Appearance Guide

Different devices are suitable for different appearance temperature control

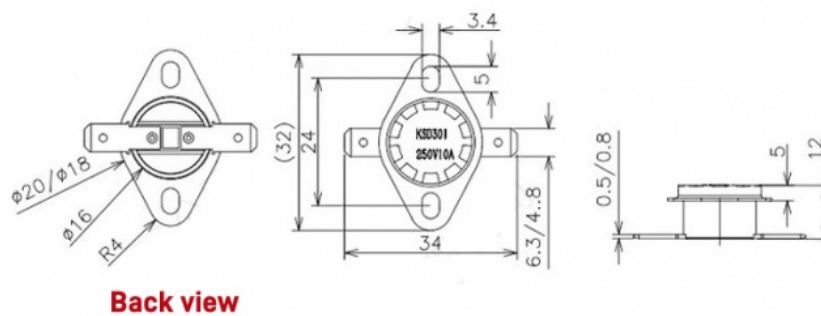
## 1.1 Flat foot movable ring



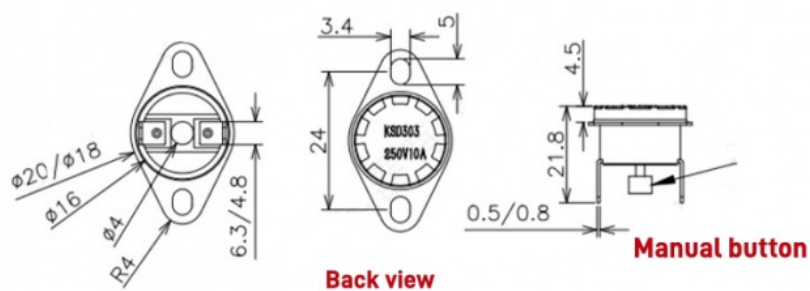
## 1.2 Bend foot movable ring



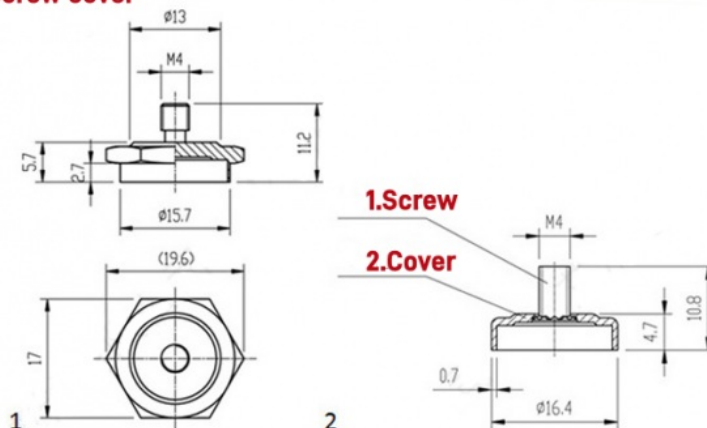
## 1.3 Flat foot fixed ring



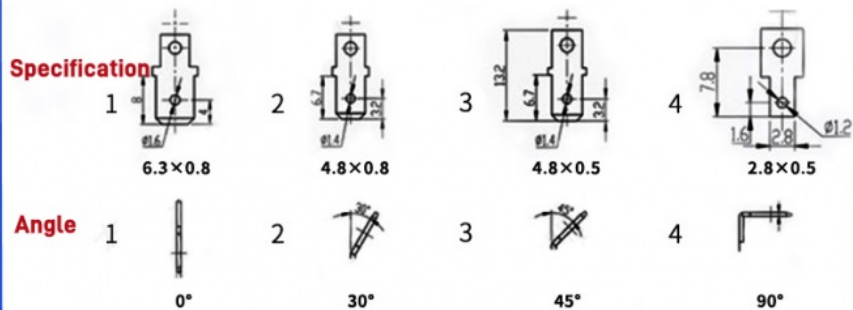
## 1.4 Bend-foot fixing ring with manual button



## 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**

# Wide application

this product is widely used in various household appliances and electronic products



**Electric kettle**



**Diesel filter heating for vehicles**



**Soy milk machine**



**Microwave oven**

## *Technical parameters*

*Rated voltage: AC250V/AC125V*

*Rated current: 10A/16A*

*Rated frequency: 50/60Hz*

*Minimum current: 200mA*

*Lifespan: >50,000 times*

*Action temperature range: -30°C ~ 350°C*

*Action temperature error: -3°C ~ 5°C*

Note: The action temperature and reset temperature can be customized according to the customer's actual requirements.



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