User Manual

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Before using the unit,please make sure you have read the following information carefully and known well about the use steps and precautions.

Products Specifications:

Name	KI31/KSD301 Thermal Switch
Use	Temperature control/Overheat protection
Action type:	Normally Closed(N.C)； Normally Open(N.O)
Voltage and current	AC125V~250V/16A; DC24V/48V/20A
Operating Temperature	0-250°C(32-482°F)
Temperature accuracy	±3℃； ±5℃； ±8℃
Contact resistance	≤50MΩ
Insulation resistance	≥100MΩ
Life span	About 100,000 times
Electrical strength	AC 50Hz 1800V lasted for 1min, no flicker, no breakdown
Size (Each)	Automatic Reset: 1.34" x 1.18"x 0.47" (L*W*H) Manual Reset : 1.34" x 1.18"x 0.75" (L*W*H)
Mounting Hole Spacing	23.8mm / 0.937inch
Pin width	6.3mm/0.25inch
Fixes the symptoms	No heat or not enough heat Takes too long to dry Too hot Will not start Shuts off too soon Will not shut off The temperature cannot be adjusted automatically Equipment cannot be heated
Appliance	**Household Appliances**: Microwave oven Coffee maker Drinking machine Toaster Water Heater Portable Refrigerator Water dispenser Electric pad etc. **Equipment**: Communication equipment Monitoring equipment Welding equipment Electric tools Refrigeration equipment Heating ventilation equipment Boiler equipment Electric heating products, etc

Model Code:



UL KI31-xxxBx 125V16A

I II III IV V VI

I → Certification

II → Model

III → Operating Temperature (000～250 means 0℃～250℃)

IV → B: Normal close; K:Normal open; M: Manual reset

V → Operating temperature accuracy(±3:±5:±8)

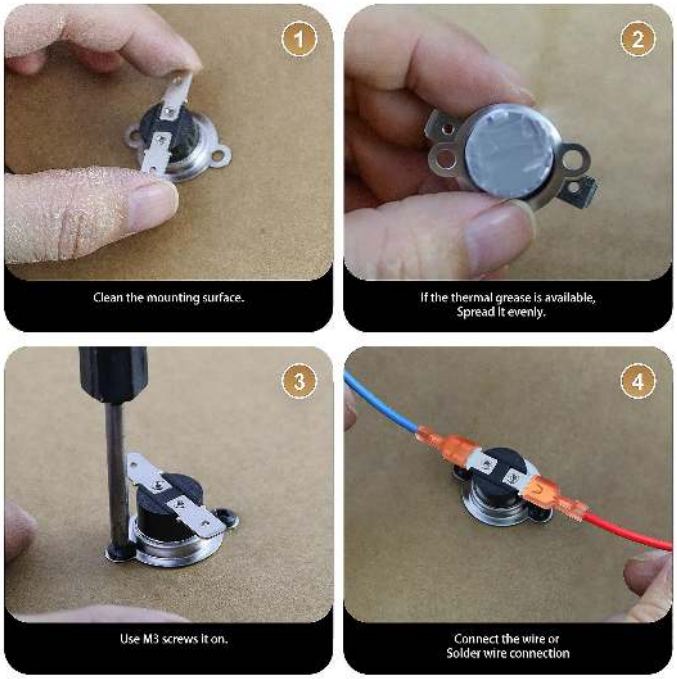
VI → Voltage and current

Action temperature & Reset temperature

Action Temp.	Reset Temp.	Action Temp.	Reset Temp.
0±3℃	-10±3℃	110±5℃	90±5℃
5±3℃	-5±3℃	115±5℃	95±5℃
10±3℃	0±3℃	120±5℃	100±5℃
15±3℃	5±3℃	125±5℃	105±5℃
20±3℃	10±3℃	130±5℃	110±5℃
25±3℃	15±3℃	135±5℃	115±5℃
30±3℃	20±3℃	140±5℃	120±5℃
35±3℃	25±3℃	145±5℃	125±5℃
40±3℃	30±3℃	150±5℃	130±5℃
45±3℃	35±3℃	155±5℃	135±5℃
50±3℃	40±3℃	160±5℃	140±5℃
55±3℃	45±3℃	165±5℃	145±5℃
60±5℃	50±5℃	170±5℃	150±5℃
65±5℃	55±5℃	175±5℃	155±5℃
70±5℃	60±5℃	180±5℃	150±8℃
75±5℃	65±5℃	185±5℃	155±8℃
80±5℃	60±5℃	200±5℃	170±8℃
85±5℃	65±5℃	210±5℃	180±8℃
90±5℃	70±5℃	220±8℃	190±10℃
95±5℃	75±5℃	230±8℃	200±10℃
100±5℃	80±5℃	240±8℃	210±10℃
105±5℃	85±5℃	250±8℃	220±10℃

How to install:

1. Clean the mounting surface.
2. If thermal grease is available,Spread it evenly.
3. Use M3 screws it on.
4. Connect the 250# female terminal wire or Solder wire connection.



Installation Precautions:

1.Before installing this part, unplug the household appliances， Cut off the power completely.
2.Take a picture first before removing any parts, so you know how to restore everything at the end.
3.The thermal switch is a series circuit, not parallel, installation must refer to the original product circuit design.
4.Do not collapse, loosen or deform the top of cover surface during installation to avoid affecting performance.
5.When locking the screw hole, both sides should be fixed at the same time and then locked. Can avoid the bracket on one side, resulting in deformation of the aluminum cover.
6. For the sake of safety, the connecting wire terminal shall be insulated and closed.
7.Do not allow liquid to penetrate into the interior of the thermostat or crack the housing.
8.The thermostat should be stored in a warehouse with RH less than 90% and ambient temperature less than 40 ℃, which is ventilated, clean, dry.
9.CHOKING HAZARD -- Small parts. Not for children under 3 yrs.

After-sales Service

If you have any questions or suggestions toward product usage and quality,please feel free to contact us via safetyele@163.com. Our professional support team will help you in 24 hours.

E 527363

Dear Customer,

Thank you for choosing Awozkcd.

If you have any questions about the installation and use of the thermal switch,please feel free to contact with us. Our professional support team will help you in 24 hours.

We hope the product is helpful for you and we'll do our best to deliver more and better products to meet your needs in the future. Some of the new products will sell Amazon soon.

Best regards,

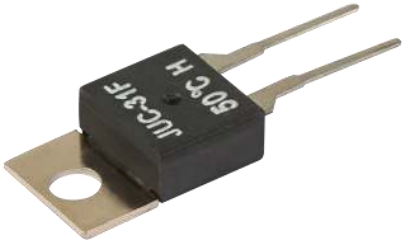
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Awozkcd specializes in producing a wide range of thermal switch switches.







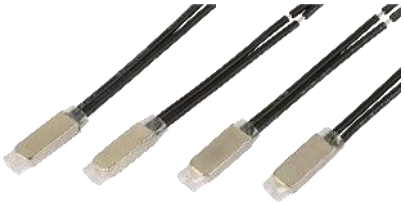






17AM-K series thermal protector

KI67 series thermal protector

BW-A1D series thermal protector