



Temperature Control Switch BW9700/KSD9700 Protector Electric Frying Pan, Induction Cooker Temperature Controller

Our Product Introduction

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Basic Information

- Place of Origin: Dong Guan China
- Brand Name: lin kun
- Certification: ROHS,UL
- Model Number: Temperature switch
- Minimum Order Quantity: 5000 PCS
- Price: 0.045 USD/ PCS
- Packaging Details: Bulk,500pcs per polybag
- Delivery Time: 7 workdays
- Payment Terms: T/T
- Supply Ability: 20,000,000PCS per week



Product Specification

- Model: KSD9700
- Package: Axial Lead
- Application: Electronic
- Voltage: Small
- Voltage Characteristics: Safety Voltage
- Shape: SMD Type
- Fusing Speed: FF/Extra Fast
- Implementation Standard: National Standard
- Automatic Reset Function: Yes
- Maximum Voltage: 250 (V)
- Maximum Current: 25 (A)
- Holding Current: 5 (A)
- Operation Temperature: 30-180 (°C)
- Temperature Control Range: 30-180 (°C)



More Images



Product Description

KSD9700 temperature control switch thermal protector thermostat

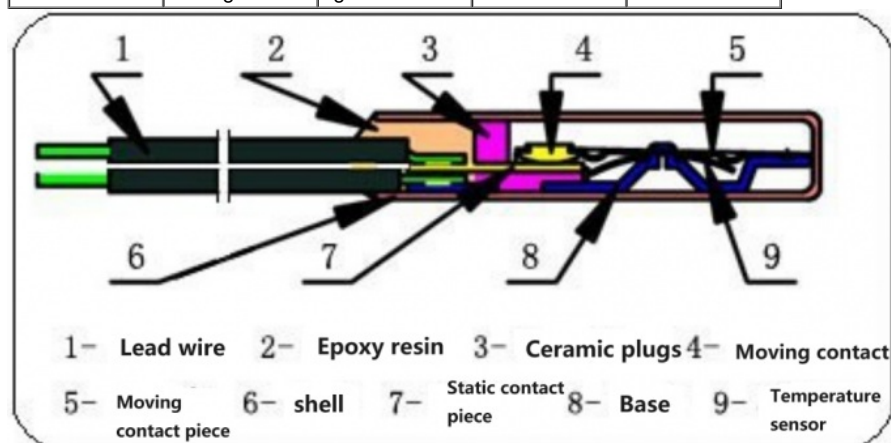
KSD9700 thermal protector is composed of heat-conducting PBT shell, bimetallic element with silver alloy contacts, conductive bracket, insulating fixed seat, static contact and heat-resistant wire. The fully enclosed structure can protect the components from dust or impurities, prevent the penetration of paint and damage by external forces. Since the shell is a metal conductor, it is equipped with a heat-conducting and temperature-resistant insulating sleeve when in use. When the current passes through the bimetallic element with impedance, when it encounters abnormal operation, as the current increases or the ambient temperature rises to the set temperature value, the bimetallic element quickly acts, opens the contact and cuts off the circuit. When the device cools to a safe operating temperature, the contact automatically closes and resumes normal operation. It is widely used in motor overheating protection caused by abnormal working conditions such as overload and stall of single-phase and three-phase motors, and is also suitable for overheating protection and temperature control of general electrical appliances such as choke coils, spiral vacuum tubes and transformers.

1 Product Application

KSD9700 thermal protector has the characteristics of shell insulation, sensitive action and long life. It is widely used in fractional horsepower motors, electric heating appliances, fluorescent lamp ballasts, transformers, automobile motors, integrated circuits and general electrical equipment for dual protection against overheating and overcurrent. When using contact temperature sensing installation, the product should be close to the installation surface of the controlled device. During installation, the shell should not be collapsed or deformed by force to avoid affecting its performance.

2 Appearance and structure:

Serial number	Part name	Material name	Serial number	Part name
1	Housing	PBT/SPCC	5	Mounting seat
2	Base plate	SPCC	6	Static contact
3	Bimetallic strip	P30R	7	Epoxy resin
4	Moving contact	AgNi10/BZn	8	Wire



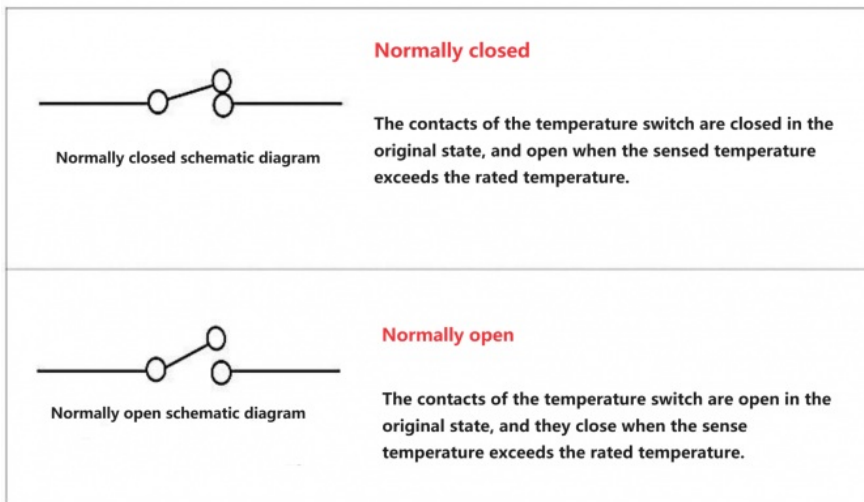
● Closed state before action



● Power-off state after action



How to distinguish between normally closed and normally open



3. Performance

3.1 Technical parameters

- ① Contact form: 1D or 1H
- ② Contact load: 5A220VAC 10A 220VAC 16A 220VAC or 24VDC 12VDC
- ③ Insulation resistance: $\geq 100M\Omega$ at normal temperature and humidity
- ④ Contact resistance: $\leq 100 m\Omega$
- ⑤ Dielectric withstand voltage: $\geq 1000VAC$
- ⑥ Vibration intensity: 50HZ single amplitude 0.35mm
- ⑦ Impact strength: 150m/S2
- ⑧ Weight $< 3g$

3.2 Disconnection temperature: 10 240°C, reset temperature -20 210°C.

Disconnect Temperature	Reset Temperature	Disconnect Temperature	Reset Temperature
15±5°C	≥-15±10°C	130±5°C	≥100±10°C
20±5°C	≥-10±10°C	135±5°C	≥105±10°C
25±5°C	≥-5±10°C	140±5°C	≥110±10°C
30±5°C	≥0±10°C	145±5°C	≥115±10°C
35±5°C	≥5±10°C	150±5°C	≥120±10°C
40±5°C	≥10±10°C	155±5°C	≥125±10°C
45±5°C	≥15±10°C	160±5°C	≥130±10°C
50±5°C	≥20±10°C	165±5°C	≥135±10°C
55±5°C	≥25±10°C	170±5°C	≥140±10°C
60±5°C	≥30±10°C	175±5°C	≥145±10°C
65±5°C	≥35±10°C	180±5°C	≥150±10°C
70±5°C	≥40±10°C	185±5°C	≥155±10°C
75±5°C	≥45±10°C	190±5°C	≥160±10°C
80±5°C	≥50±10°C	195±5°C	≥165±10°C
85±5°C	≥55±10°C	200±5°C	≥170±10°C
90±5°C	≥60±10°C	205±5°C	≥175±10°C
95±5°C	≥65±10°C	210±5°C	≥180±10°C
100±5°C	≥70±10°C	215±5°C	≥185±10°C
105±5°C	≥75±10°C	220±5°C	≥190±10°C
110±5°C	≥80±10°C	225±5°C	≥195±10°C
115±5°C	≥85±10°C	230±5°C	≥200±10°C
120±5°C	≥90±10°C	235±5°C	≥205±10°C
125±5°C	≥95±10°C	240±5°C	≥210±10°C

3.3 Dimensions:

5A/10A: Metal housing: 20×7.4×3.8mm 15×6.4×3.1 (excluding insulating sleeve)

Plastic housing: 20×7.4×3.8mm 15×7×3.5mm

Ceramic housing: 20×8.5×5mm

16A: Metal housing: 21.5×8×4.25mm (excluding insulating sleeve)

3.4 Tensile test:

The lead end of the product should be able to withstand a tensile force greater than or equal to 20N, and the wire should not break or slip out.

3.5 Insulation voltage:

a. The lead wires of the product should be able to withstand AC660V when disconnected, and last for 1min without breakdown and flashover;

b. The lead wires of the product and the insulating housing can withstand AC1800V, and last for 1S without breakdown and flashover;

3.6 Insulation resistance:

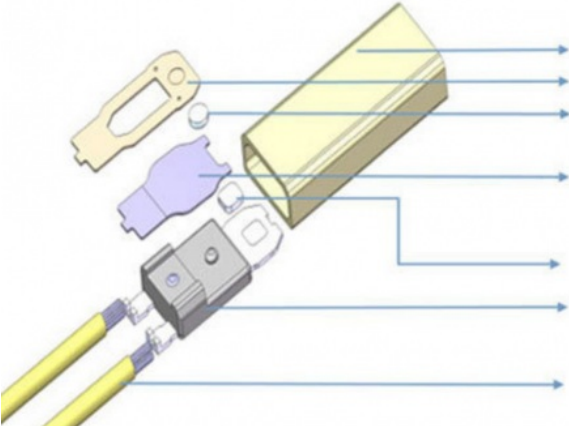
Under normal conditions, the insulation resistance between the lead wire and the insulating housing is above 100MΩ. (The meter used is a DC500V megohmmeter)

3.7 Contact resistance:
The contact resistance of the product should not exceed 50mΩ.

**Customized selection according to
customer product requirements**

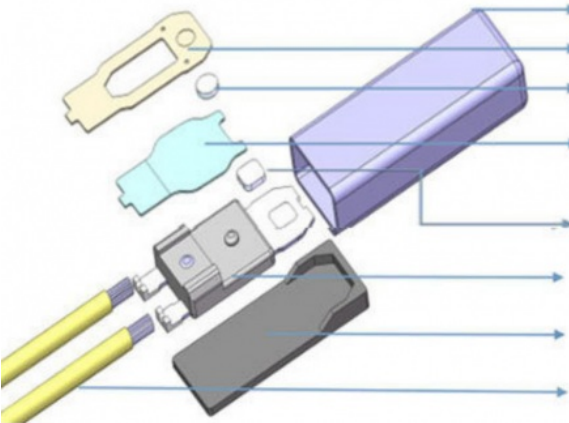
Free proofing

Plastic
shell
structure



Part name	Material
Shell	PBT
Beryllium copper sheet	QBe
Moving contact	AgNi/Cu
Temperature sheet	Bimetal
Static contact	AgNi/Cu
Base	PBT/SPCC/Cu
Wire	UL3398/3135-- Multiple options available

Iron shell
structure



Part name	Material
Shell	SPCE
Beryllium copper sheet	QBe
Moving contact	AgNi/Cu
Temperature sheet	Bimetal
Static contact	AgNi/Cu
Base	PBT/SPCC/Cu
Insulation seat	PBT
Wire	UL3398/3135 Multiple options available

Wide range of applications

Applicable to all kinds of motor equipment



Switching power supply



Rechargeable battery pack



Lithium battery protection board



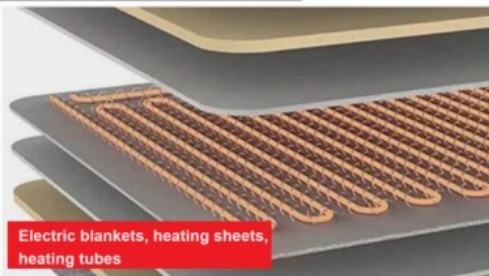
Electric motors

Application

Good products are made with care and come from good manufacturers



Massage Chair



Electric blankets, heating sheets, heating tubes



Power tools



Car seats



Tubular motors

There are also these:

Rechargeable battery packs, lithium battery protection boards

Curtain motors, tubular motors, electric motors (electric tools, etc.) PC circuit boards, temperature sensing cables

Heating pads, medical pads, electric blankets, electric heating clothing

Fluorescent lamp ballasts, transformers, etc.



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