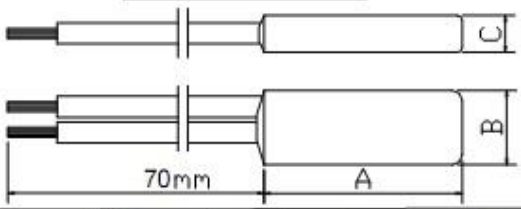
KSD-9700 Series Thermal Protector

Features or structure

KSD-9700 series thermal protector consists of dish shape high sensitive bimetallic elemeng,movable contact-head,static contact-piece,soleplate,outer case,ghermal resistant lead and so on.When operation,the bimetallic element is in free state and movable contact-head and static contace-piece are closed and the circuit is on.When the electric appliance is in operation is in operation and produces heat caused by some troubles and temperature is raised to the rated action temperature of the product,the bimetallic element produces inner stuess and acts quickly and pushes the movable contact-head and make the vontact point off and the power supply is rurned off the electric appliance stop.in this way the thermal protection is made.When the temperature of electric appliance to be protected is dropped to the rated reset temperature.The bimetallic element restores to its primary state and contact point is closed .The electric appliance restores its work.The product has many advantages such as small in resistor,puick in temperature feeling,fast in action.Safe and reliable.compact and so on.

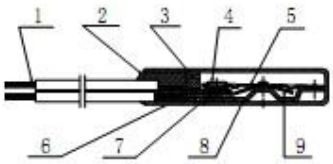
Dimensions(mm)



Type \ Size	A	B	C
KSD-9700	20.0mm	8.0mm	4.0mm
	20.0mm	7.4mm	3.8mm

Notes: The lead wire can be made according to the customers' requirements. The above dimension is the one non-insulated sleeving.

Structure of the produet



1	lead wire	6	Metal case
2	Resin	7	Static contact
3	Ceramic material	8	Frame for the base
4	Dynamic contact point	9	Bimetal
5	Dynamic contact		

Drawing for working time

Closing condition before the action

Disconnecting current condition after the action

Switch Material: Metal or Plastic

The metals outer shell type the product outer shell take an electricity, should add to insulate a coat.

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Product application

Be applicable to all kinds of home appliances and electronics products. Such as Electric Motors,Fluorescent Ballasts,Battery Chargers,Transformers,Solenoids,Heating pads,OA-Machines ETC.

Technical parameters:

Operating Temperature: 25-180℃ (one step for every 5℃)

Operating Temperature	Reset Temperature	Operating Temperature	Reset Temperature	Operating Temperature	Reset Temperature
25±5°C	≥15°C	80±5°C	55±15°C	135±5°C	95±15°C
30±5°C	≥20°C	85±5°C	60±15°C	140±5°C	100±15°C
35±5°C	≥25°C	90±5°C	65±15°C	145±5°C	100±15°C
40±5°C	≥30°C	95±5°C	70±15°C	150±5°C	105±15°C
45±5°C	≥33°C	100±5°C	70±15°C	155±5°C	110±15°C
50±5°C	≥35°C	105±5°C	75±15°C	160±5°C	115±15°C
55±5°C	42±6°C	110±5°C	75±15°C	165±5°C	115±15°C
60±5°C	48±10°C	115±5°C	80±15°C	170±5°C	120±15°C
65±5°C	48±10°C	120±5°C	85±15°C	175±5°C	125±15°C
70±5°C	50±12°C	125±5°C	85±15°C	180±5°C	130±15°C
75±5°C	53±14C	130±5°C	90±15°C		

Rated Voltage :AC250V/AC125V;
Rated Current:5A/8A
Electric intensity: ≥800V
Contact resistance: ≤50mΩ
Lnsulation resistance: ≥ 100MΩ
Response speed: ≤1℃/min
Service Life: ≥ 10000 times

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TEST METHOD:

Sample is connected to the fixture of the equipment,and placed into the test equipment (Hot current of air in the space of test should be equipped with a stirrer and temperature is controllable).A detect current about 10mA(no more then 100mA)is passed through the sample and a thermometer is placed junction to the sample to monitor the opening temperature .The temperature of the test equipment is raised at the rate of 0.5～1℃ per minute until the sample functioned.