

## KSD9700 Series



### Product Description

SD9700 series thermal protectors are featured by advanced bimetal disc structure, miniature size, snap action, large contact capacity, and long service life. They are widely used for overheat and overcurrent protection in various electric motors, electromagnetic oven, vacuum cleaner, air conditioner motor, solenoid, transformer, electrical heater, electrical heating appliances, fluorescent ballasts, automobile motors, integrated circuits and common electrical appliances.

### Product Characteristics

- \* Miniature size, easy to install
- \* Individually temperature calibrated and checked

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- \* Positive make and break with snap action bimetal disc
- \* Repeatable temperature performance over life
- \* Available in metallic shell and plastic shell
- \* Temperature sensitivity for maximum design flexibility
- \* Wide selection of leads and imported Mylar insulating sleeves.
- \* Strict RoHS environmental standard implemented for each component
- \* Cadmium free silver-nickel alloy contacts
- \* Wide selection of trip off temperatures
- \* Low internal resistance: Below 50 milliohm
- \* Optional Normally Close type and Normally Open type
- \* High temperature resistant lead wire, customizable as per customer requirements

## Description

Name: Thermal protector

Model: KSD9700

Switch Type: normally open / normally closed

Material: metal / plastic housing

Specifications: Metal 20mm \* 7.4mm \* 3.6mm

Plastic 20mm \* 8.0mm \* 4.2mm

Rated voltage: 250V

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Overload Current: 5A

Operating temperature: 20 degrees -180 degrees

Rated current: DC12V / 12A, DC24V / 10A AC125V / 8A, AC250V / 5A

Normal Electric Strength:> 800V

Normal contact resistance: <50mΩ

Insulation resistance:> 100MΩ

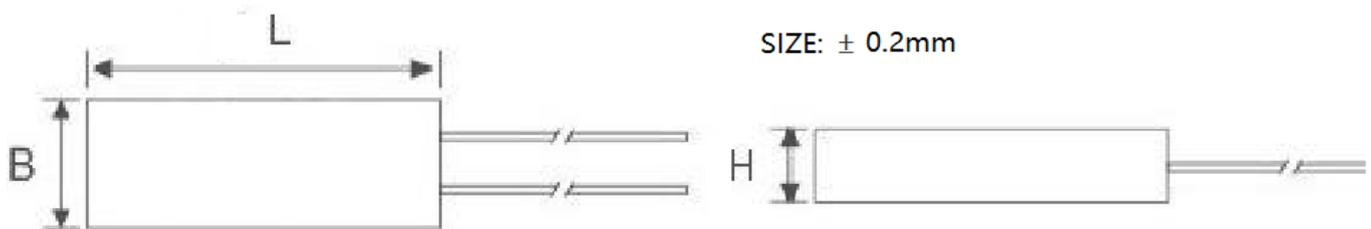
Response speed:  $\leq 1$  °C / min

The number of times life:> 10,000 times or more

Operating temperature: 20 ° C -180 ° C (error  $\pm 3$  ° C /  $\pm 5$  ° C)

Reset temperature: 10 ° C- 140 ° C (error  $\leq 15$  ° C)

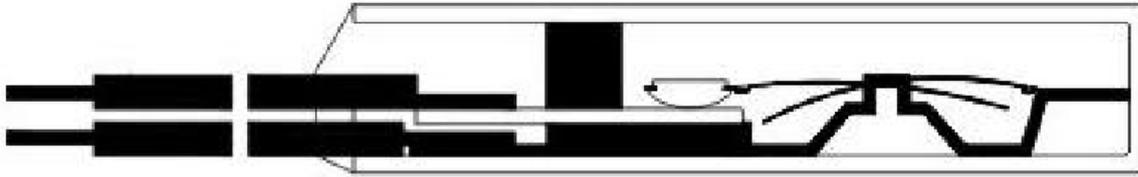
Type	L (MM)	B (MM)	H (MM)
20- Metal	20	7.4	3.8
20- Plastic	20	8.0	4.2



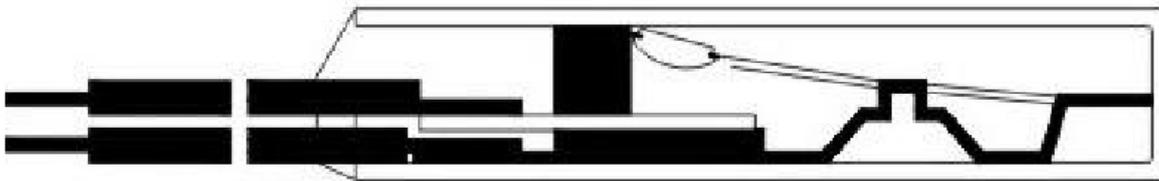
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Temperature control switch before work



Temperature control switch after work



Selling specifications (can according to the customers' requirements)

item	action temp	reset temp	item	action temp	reset temp
30°C	30±3°C	≥20°C	80°C	80±5°C	55±15°C
35°C	35±3.5°C	≥25°C	85°C	85±5°C	60±15°C
40°C	40±4°C	≥30°C	90°C	90±5°C	65±15°C
45°C	45±4.5°C	≥33°C	95°C	95±5°C	70±15°C
50°C	50±5°C	≥35°C	100°C	100±5°C	70±15°C
55°C	55±5°C	42±6°C	105°C	105±5°C	75±15°C
60°C	60±5°C	45±8°C	110°C	110±5°C	75±15°C
65°C	65±5°C	48±10°C	115°C	115±5°C	80±15°C
70°C	70±5°C	50±12°C	120°C	120±5°C	85±15°C
75°C	75±5°C	53±14°C	125°C	125±5°C	95±15°C
80°C	80±5°C	55±15°C	145°C	145±5°C	100±15°C
85°C	85±5°C	60±15°C	150°C	150±5°C	105±15°C
90°C	90±5°C	65±15°C	155°C	155±5°C	110±15°C

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