

KSD-01F

Switch system tactile temperature sensor; sensitive and reliable, suitable for temperature control or thermal overload protection.

FEATURES:

- Scope of application: Used for temperature control and overheat protection in electrical equipment, electronic products, household appliances, and circuit boards.
- Structural Features: Advanced compression spring structure design, high-sensitivity snap-action process with bimetallic strip molding;
- Contact form: A set of contacts opens or a set of contacts closes
- Contact resistance: $\ll 50\text{m}\Omega$
- Insulation resistance: $\gg 100\text{ m}\Omega$
- Dielectric withstand: $\gg 500\text{ VAC}$
- Ambient temperature: $-40^{\circ}\text{C}\sim+145^{\circ}\text{C}$
- weight: $<2.8\text{g}$ packaging: 50pcs/plastic pipe 500pcs/box
- Eco-Certification: ROHS

Working life: 250V AC 2A ON / OFF: 10000times
48V DC 1A ON / OFF: 30000times
5V DC 0.02A ON / OFF: 100000times

Specification Data Sheet:

operating temperature ($^{\circ}\text{C}$)	recovery temperature ($^{\circ}\text{C}$)	error, deviation	elevation rate
20–100 $^{\circ}\text{C}$	10–110 $^{\circ}\text{C}$	$\pm 10\%$	1 $^{\circ}\text{C}/\text{min}$
100–160 $^{\circ}\text{C}$	80–170 $^{\circ}\text{C}$	$\pm 15\%$	1 $^{\circ}\text{C}/\text{min}$

- Terms of Use: ①humidity : 95% at +20 $^{\circ}\text{C}$
②barometric : 86-106Kpa
③installation site : Install near the heat source
- Switching form: D (Normally Closed) H (Normally Open)
- Temperature tolerance:
 1. Direct soldering of product within 250 $^{\circ}\text{C}$;
 2. Soldering of back surface surface-mount product within 230 $^{\circ}\text{C}$
 3. The outer shell is made of electrically insulating material and can withstand high temperatures (operating temperature range of approximately 120–150 $^{\circ}\text{C}$ for both short-term and long-term use).

- Constant Close and Constant Open:
- Introduction to Action Temperature and Reset Temperature

(° C)	operating temperature	reversion temperature	(° C)	operating temperature	reversion temperature
30	30±3°C	≥20°C	95	95±5°C	70±15°C
35	35±3.5°C	≥25°C	100	100±5°C	70±15°C
40	40±4°C	≥30°C	105	105±5°C	75±15°C
45	45±4.5°C	≥33°C	110	110±5°C	75±15°C
50	50±5°C	≥35°C	115	115±5°C	80±15°C
55	55±5°C	42±6°C	120	120±5°C	85±15°C
60	60±5°C	45±8°C	125	125±5°C	85±15°C
65	65±5°C	48±10°C	130	130±5°C	90±15°C
70	70±5°C	50±12°C	135	135±5°C	95±15°C
75	75±5°C	53±14°C	140	140±5°C	100±15°C
80	80±5°C	55±15°C	145	145±5°C	100±15°C
85	85±5°C	60±15°C	150	150±5°C	105±15°C
90	90±5°C	65±15°C	160	160±5°C	120±15°C

- schematic diagram:

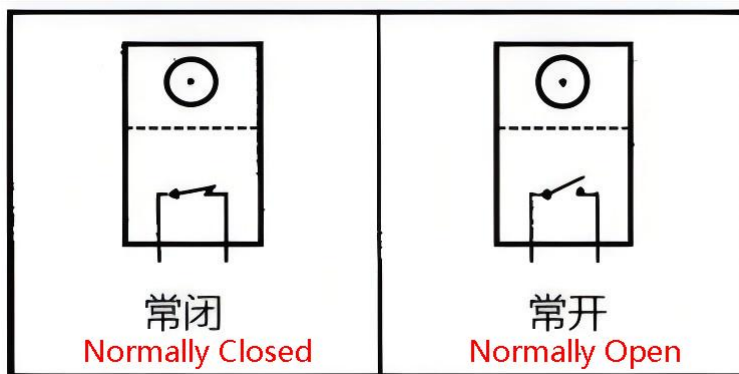
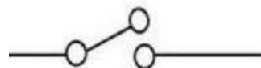


Diagram of closed circuit:



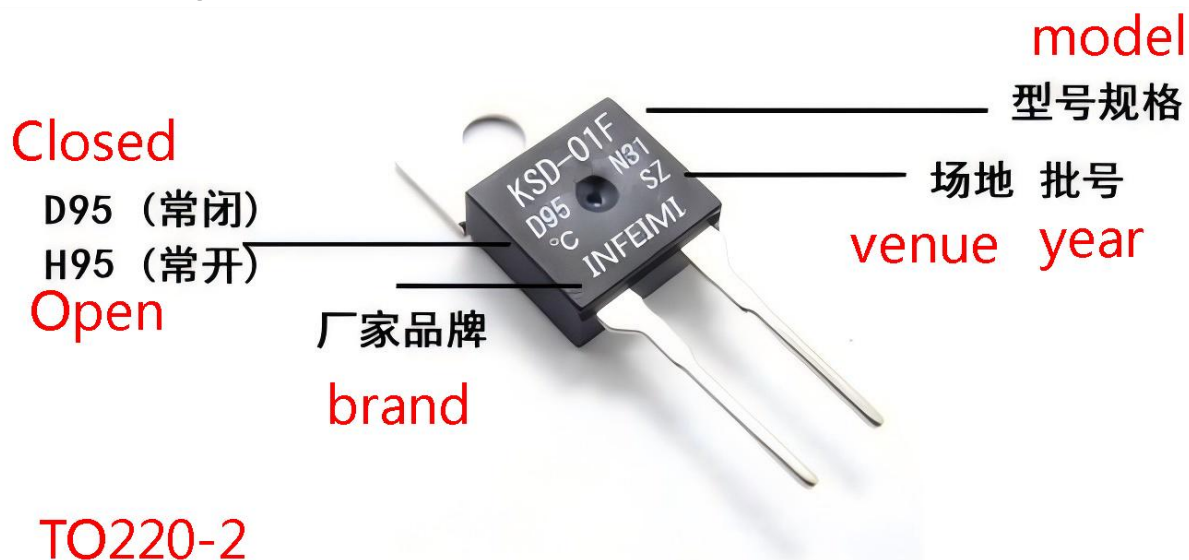
The original state of the temperature switch is closed, and the contact is opened when the temperature exceeds the rated temperature.

Diagram of normally open type:



The original state of the temperature switch is open, and the contact closes when the temperature exceeds the rated temperature.

● Product image:



TO220-2

constant opening type	normally closed type
KSD-01F-H85	KSD-01F-D85

外观实物图: **TO220-2**

尺寸图: mm

