OEM Practical Electric Heat Sensor, Waterproof NTC Component Electronics

Basic Information

. Place of Origin: Dongguan China

. Brand Name: linkun

CE / ROHS / UL / TUV / SGS · Certification: Model Number: Electric Temp Sensor

• Minimum Order Quantity: Negotiation • Price: Negotiation

Export Package / Negotiation · Packaging Details:

• Delivery Time: Negotiation

Payment Terms: T/T, L/C, Western Union . Supply Ability: 24 million per year



Product Specification

 Resistance Value: 1K, 5K, 10K, 50K, 100K, 15K

Customized Support:

• Usage: Temperature Sensor

-40~120°C • Temperature Range: Length: **Custom Made**

• Resistance Tolerance: F±1%,G:±2%, H:±3%,J:±5%,K:±10%

· Highlight: **OEM Electric Heat Sensor**, Practical Electric Heat Sensor,

Waterproof NTC Component Electronics

Product Description

High Delicacy Electric Tool Temperature Sensor Fast Response High Precision Of Resistance And B Value

NTC temperature sensor not only outputs temperature signal, but also integrates humidity measurement, and the signal output is also changed from the original single signal to a variety of output forms, which can carry out long-distance communication, data can be recorded according to needs, upper limit alarm and automatic control, etc. function.

The intelligent integrated NTC temperature sensor used today adopts single-chip microcomputer technology, which is equipped with multiple analog-to-digital signal converters. Its measurement accuracy is higher, and the resolution is as high as 0.03 degrees. It can also integrate a calendar clock to realize multiple measurement modes. The output is more standardized and standardized, which can effectively suppress the interference of the surrounding environment on the temperature signal output, making the measurement value more accurate.

► Design considerations and procedure of temperature sensor:

- 1. Choose the shape according to customer's design or assemble requirements, and confirm the thermistor.
- 2. Confirm the thermistor element and other materials according to customers' requirement
- 3. Choose the suitable resistance, B value and tolerance
- 4. Choose suitable moisture-proof and insulation technology to meet customer's requirement
- 5. Choose suitable encapsulation structure to meet performance requirements of mechanical shock resistance
- 6. Meet customer's special requirements.

Features

Fast reponse time Moisture proof, waterproof Easily assemble Customized available

Application

- Air conditioners, refrigerators, freezers, water heaters, water dispensers, heaters, dishwashers, disinfection cabinets, washing machines, dryers and other home appliances.
- Automobile air conditioner, water temperature sensor, intake air temperature sensor, engine
- Switching power supply, UPS uninterruptible power supply, frequency converter, electric boiler, etc.
- Intelligent toilet, electric blanket, etc.

Product Description

Туре	NTC Temperature Sensor
Resisitance	1K~5M Ω(1k 5k 4.7k 10k 20k 30k 50k 100k 150k 200k 300k)Customized
Beta Value	3380k 3435k 3500k 3950k 4050k 4150k 4250k 4450k Customized
Housing	Cooper/Stainless/aluminum/Brass/Plastic/Nylon/Others Customized
Wire	20/22/24/26/28/30/32AWG PP/PVC/PTFE/PFA/TPE/FEP Customized
Connector	JST/SYP/MOLEX/DUPONT/TE Customized
Installation	Flanged/Surface/Threaded/Plastic/Straight/Film/LUG/SMD/THT Customized
Accuracy	0.1% 0.5% 1% 2% 3% 5% 10% Customized
Temperature range	-40~300 Customized
Wire Length	10mm~10000mm Customized



Applications

Temperature measurement and control of household air-conditioner, refrigerator, icebox,water heater,drinking machine,radiator,dishwasher, disinfector,washing machine, drying machine,middle-or-low-temperature drying box and constant temperature box.

Conventional product electrical performance parameters

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Main technical parameters of sensor series thermistor:									
Model	Rated resistanc e value (R25)	B value		Operating temperatur e	Dissipati on coefficien t	11			
	Resistan ce value (KΩ)	Allowable deviation (±%)	Nominal value (K)		(mW/°C)	(S)			
CWF-102-3435	1		3435			П			
CWF-202-3435	2		3435	1					
CWF-2.252-3950	2.252		3950	1					
CWF-472-3950	4.7		3950	1					
CWF-502-3470	5		3470]					
CWF-502-3950	5		3950						
CWF-682-3950	6.8		3950						
CWF-103-3435	10		3435	_					
CWF-103-3470	10		3470						
CWF-103-3600	10		3600	-					
CWF-103-3380 CWF-103-3977	10		3380 3977						



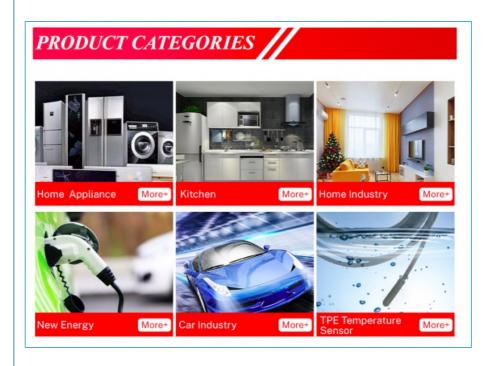
Working principle of temperature sensor

Using the NTC thermistor under a certain measurement power, the resistance value drops rapidly as the temperature rises. Utilizing this feature, the NTC thermistor can be used to determine the corresponding temperature by measuring its resistance value, so as to achieve the purpose of detecting and controlling the temperature.

Reliability Test

Test Item	Test Standard	Test method	Performance requirements
Zero Power Resistance	IEC 60539-1	Immerse samples in the constant temperature bath at 25°C±0.005°C,test steady resistance	Resistance tol ±1%
B value	IEC60539-1	Immerse samples in the constant temperature bath at 25°C,50°C(or 85°C), test steady resistance,and calculate B value	Resistance tol ±1%
Free fall	IEC60068-2-32	Fall height: 1.5±0.1m,Surface: Cement , 1 time	No obvious damage, R25 △R/R≤±1%
Insulation	IEC60539-1	500V pressure on insulation shell test insulation resistance	>500MOhm
Withstand voltage	IEC60539-1	Withstand voltage: 1500V/AC ,Leakage current:2mA Lasting: 60sec	No obvious damage

Tension	IEC60068-2-21	Pull uniform speed at the end, F>4.0KG(requested by customer)	No obvious damage, R25 △R/R≤±1%
Vibration	Q/HBm 108-94	Test frequency: 10~500Hz,swing: 1.2mm acceleration: 30m/s2 Direction X,Y,Z Time:8Hour/direction	No obvious damage, R25 △R/R≤±1%
Steady humidity and heat	IEC60068-2-78	Temp:40±2°C Humidity:92-95%RH Time:1000±24Hour	No obvious damage, R25 △R/R≤±1%
Thermal time constant	EC60539-1	Immerse in 25°C water,after thermal balance,immerse in 85°C,resistance arrives 63.2%,calculate total time	<10 sec
High temperature storage	IEC60068-2-2	Temp:125°C±5°C Time: 1000±24Hour	No obvious damage, R25 ∆R/R≤±1%
Cold and thermal shock	IEC60068-2-14	-40°C~+125°C T1:30min Cycle time:1000	No obvious damage, R25 △R/R≤±1%
Knock experiment	IEC60068-2-77	Acceleration:250m/s2 Pulse lasting: 6ms Knock times: 1000 Recovery time: 2 Hour	No obvious damage, R25 △R/R≤±1%
Low temperature storage	IEC60068-2-1	Temp: 40±2°C Time: 1000±24Hour	No obvious damage, R25 △R/R≤±1%
Salt spray	IEC60068-2-11	Temp: 35±2°C Collection hour : 1.0mL~2.0mL Time: determine per as actual demand	No obvious damage, R25 △R/R≤±1%
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