M6 Thread Temperature Sensor 50K1%3950 100KF3950 Thermistor Probe For Air Fryer

Our Product Introduction

Basic Information

- Place of Origin: Dongguan China
- Brand Name: linkun
- Certification: CE / ROHS / UL / TUV / SGS
- Model Number: Household Appliance Temperature Sensor
- Minimum Order Quantity: Negotiation
- Price: Negotiation
- Packaging Details: Export Package / Negotiation
- Delivery Time: Negotiation
- Payment Terms: T/T, L/C, Western Union
- Supply Ability: 24 million per year

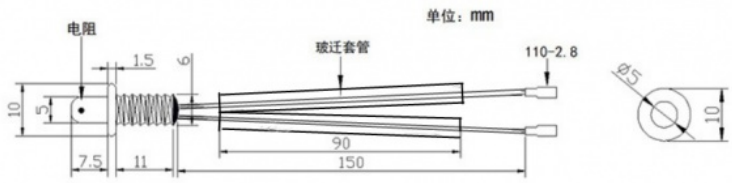
Product Specification

- Resistance Value: 1K, 5K, 10K, 50K, 100K, 15K 150K
- Accracy: ±1%
- Application: Household Appliances
- Temperature Range: -40~120
- Feature: Excellent Thermal Shock Resistance
- Resistance Tolerance: F±1%,G:±2%, H:±3%,J:±5%,K:±10%
- Highlight: **M6 100K Temperature Sensor**, **Practical 100K Temperature Sensor**, **100K 3950**

More Images

Product Description

M6 thread temperature sensor for air fryer 50K1%3950 100KF3950 thermistor probe



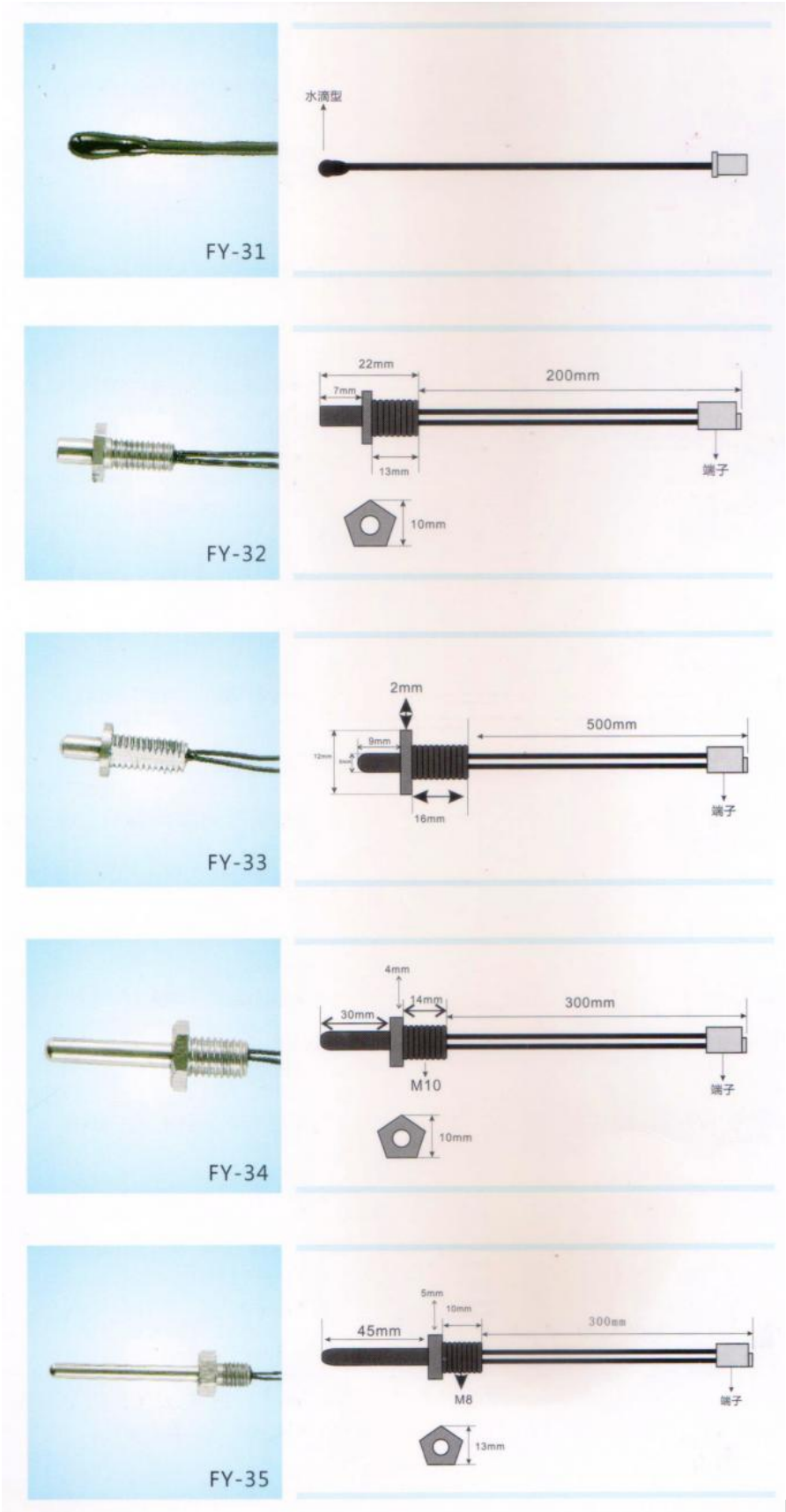
产品图纸供参考；可按需求参数、规格、长度定制（来图来样）

NTC temperature sensor [rear thread type]

NTC temperature sensor [rear thread type]						
Size parameters	D	L	E	F	ΦOD	G
Unit(mm)	/	80	130	25	/	/
Features	1. Stainless steel material, threaded installation 2. The probe is designed with a waterproof sealing groove Features 3. Work stably for a long time with good consistency 4.Wide resistance range:1KΩ~500KΩ					
Applications	Electric kettle, health pot, electric frying pan, bathroom heater, coffee machine, etc.					
Rrange of working temperature	-40~150					
Response time	Approx 7 S(different head gauges may vary)					
Withstand voltage	1800V AC 0.5mA 30S					

Product customization instructions
(1) Resistance value of the product (resistance nominal resistance value at 25°C, or other)
(2) Product accuracy (1%~5%)
(3) B value coefficient of the product
(4) Wire model and length (color, length, temperature resistance requirements)
(5) Wire tail specifications (tin dipped, socket plug-in, special specifications)
(6) Probe specifications and materials (nickel-plated copper, red copper, stainless steel, ABS plastic shell)
(7)Use temperature range

M6 thread Threaded M6 temperature sensor Ntc 50K1%3950 100KF3950 air fryer thermistor probe



NTC temperature sensor (temsensor) is the most common sensor in industrial production. It converts the temperature of the object into an electrical signal output. The NTC temperature sensor has the advantages of simple structure, wide measurement range, good stability and high precision. Different NTC temperature sensors are manufactured in different ways, and the common ones are thermistors, thermocouples and integrated products. Its development has generally gone through the stage from split type, analog integration to intelligent type.

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.

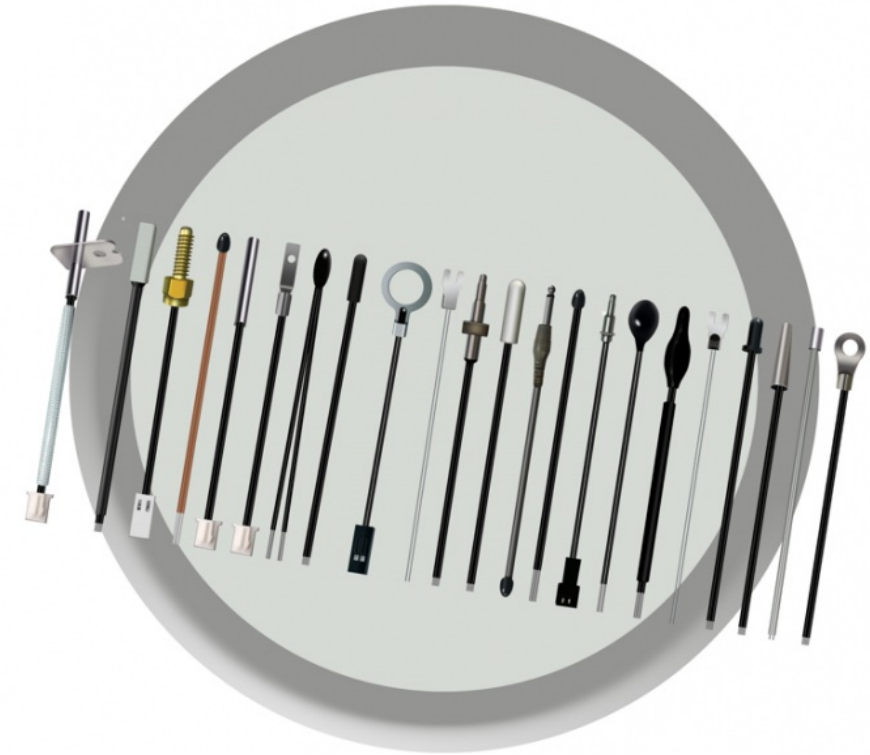
The intelligent integrated NTC temperature sensor used today adopts single-chip microcomputer technology, which is equipped with multi-bit analog-to-digital signal converters. Its measurement accuracy is higher, and the resolution is as high as 0.03 degrees. It can also integrate a calendar clock to 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.

The temperature output by the NTC temperature sensor is not the current temperature of the object to be measured, and there is usually a certain error. For occasions that require precise measurement, a sensor with a faster response speed should be selected. The probe should be protected during the measurement process. The life of the probe is much lower than the life of the entire measurement system. When the output is incorrect, it should be replaced in time.

Product Description

Certificates for Raw Material	All parts and processing is compliant with ROHS, CCC
Certificates for Wire Harness Material	UL/CSA,CE, VDE,SAA,CB,ISO9001 etc are avalable; PA66 for connectors; copper or stainless steel for terminals
Length	As per customer's request
Connector Type	Tyco, Delphi, Bosch, Deutsch, Yazaki, Sumitomo, FCI replacements
Service	Different series of customized CAD wire harness are available



NTC temperature sensor application range

◆Heating and heating air conditioners and related equipment
◆Household appliances of various sizes: air conditioners, refrigerators, battery stoves, bread ovens, baking ovens, electric ovens, microwave ovens, electric fans, soybean milk machines, electric water heaters, electric rice cookers, disinfection cabinets, water dispensers, heaters, electric irons, disinfection Cabinets, drinking fountains, lighting appliances, etc.
◆Temperature measurement and control circuits for agricultural, medical, environmental protection, meteorological, food processing and other equipment
◆Instrument coils, automotive circuits, integrated circuit modules, transistor amplifier circuits, temperature compensation circuits such as quartz crystal oscillators and thermocouples

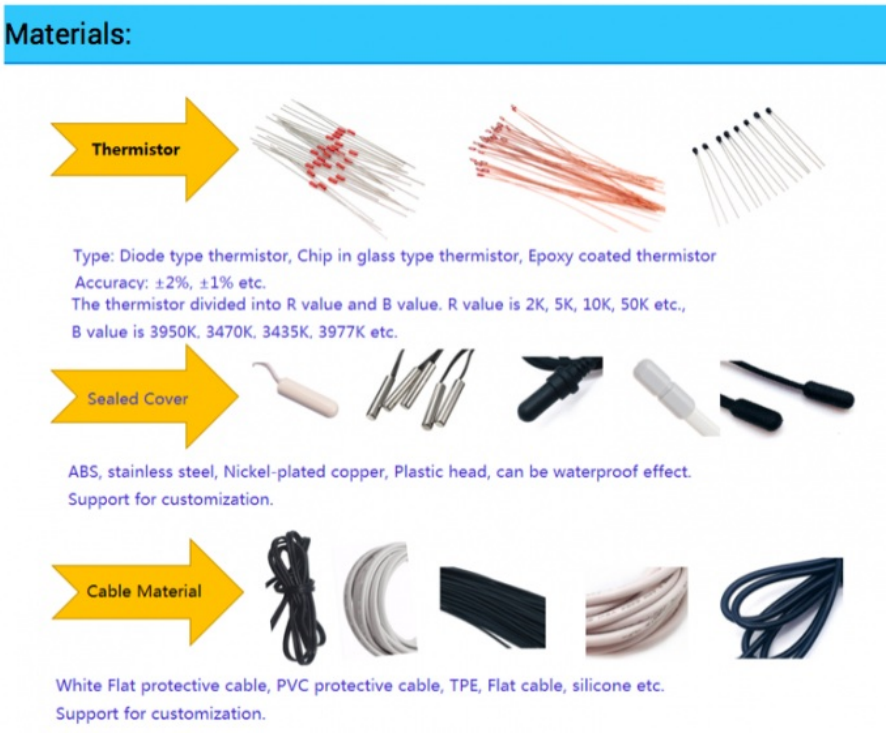
Conventional product electrical performance parameters

Part No.	R25 (KΩ)	B(K) 25/50	Rated Power @25 (mW)	Dissipation Factor(δ) (mW/)	Thermal time Constant (S)
TS502□3274A	5.0	3274	10-20	2-4	5-20
TS502□3435B	5.0	3435	10-20	2-4	5-20
TS502□3470A	5.0	3470	10-20	2-4	5-20
TS502□3950A	5.0	3950	10-20	2-4	5-20
TS103□3274A	10.0	3274	10-20	2-4	5-20
TS103□3435B	10.0	3435	10-20	2-4	5-20

TS103□3470A	10.0	3470	10-20	2-4	5-20
TS103□3950A	10.0	3950	10-20	2-4	5-20
TS103□4100A	10.0	4100	10-20	2-4	5-20
TS153□3950A	15.0	3950	10-20	2-4	5-20
TS153□4100A	15.0	4100	10-20	2-4	5-20
TS203□3950A	20.0	3950	10-20	2-4	5-20
TS203□4100A	20.0	4100	10-20	2-4	5-20
TS223□4200A	22.0	4200	10-20	2-4	5-20
TS403□3928A	40.0	3928	10-20	2-4	5-20
TS503□3950A	50.0	3950	10-20	2-4	5-20
TS503□4100A	50.0	4100	10-20	2-4	5-20
TS104□3950A	100.0	3950	10-20	2-4	5-20
TS104□4100A	100.0	4100	10-20	2-4	5-20
TS104□4400A	100.0	4400	10-20	2-4	5-20

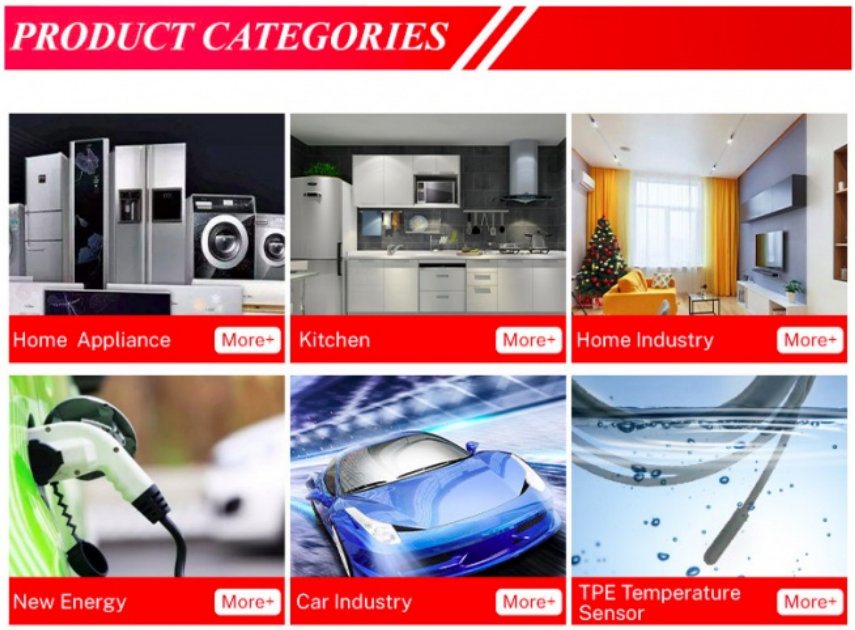
Reliability Test

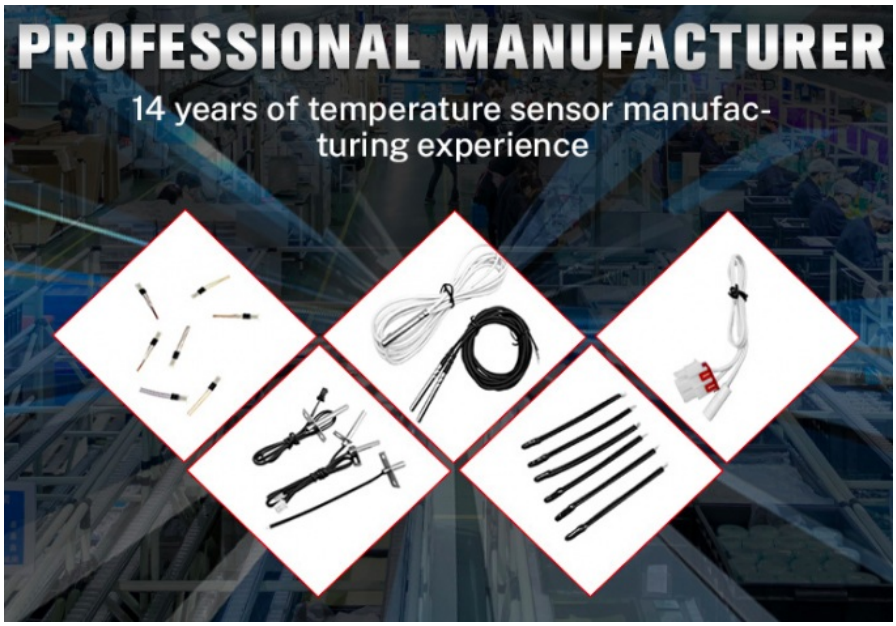
Test Item	Test Standard	Test method	Performance requirements
Zero Power Resistance	IEC 60539-1	Immerse samples in the constant temperature bath at 25 ±0.005 ,test steady resistance	Resistance tol ±1%
B value	IEC60539-1	Immerse samples in the constant temperature bath at 25 ,50 (or 85), test steady resistance,and 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 Humidity:92-95%RH Time:1000±24Hour	No obvious damage, R25 △R/R≤±1%
Thermal time constant	EC60539-1	Immerse in 25 water,after thermal balance,immerse in 85 ,resistance arrives 63.2%,calculate total time	<10 sec
High temperature storage	IEC60068-2-2	Temp:125 ±5 Time: 1000±24Hour	No obvious damage, R25 △R/R≤±1%
Cold and thermal shock	IEC60068-2-14	-40 ~+125 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 Time: 1000±24Hour	No obvious damage, R25 △R/R≤±1%
Salt spray	IEC60068-2-11	Temp: 35±2 Collection hour : 1.0mL~2.0mL Time: determine per as actual demand	No obvious damage, R25 △R/R≤±1%



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.





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