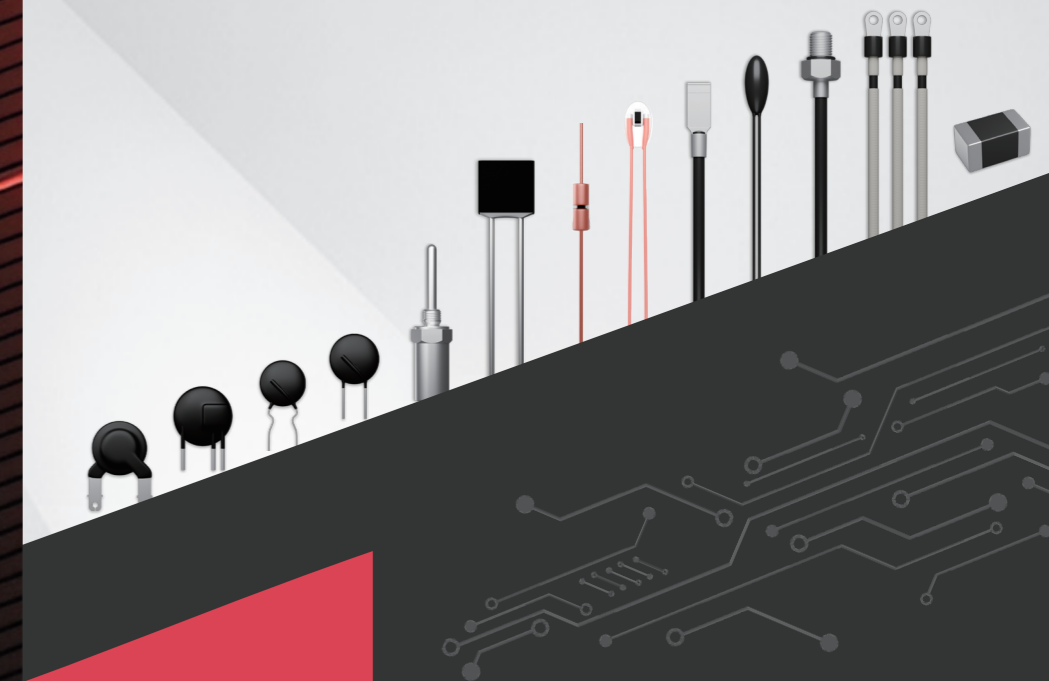


# CviLux Sensor

Focus On The Research And Sales Of Protective Devices

<https://www.cviluxsensor.com>



## Over-Current Protection

### NTC Power Thermistor >

#### CSC Series



Size (mm)	Φ5 - Φ30	Product Features	1.Strong inrush current suppression capability. 2.High current tolerance, long lifespan, and high reliability. 3.Easy PCB mounting, comprehensive product series, and wide application range.
R25 (Ω)	0.5 ~ 470		
Maximum steady-state current (A)	0.3 ~ 10		
Operating temperature range (°C)	-40°C ~ 200°C		
		Application scope	High power switching power supply, conversion power supply, UPS power supply, instrument coil, integrated circuit.

### Professional Surge Protection Varistor >

#### Metal Oxide Varistor(MOV)



Size (mm)	φ14,φ20,φ25	Product Features	1.Wide operating voltage range. 2.Superior voltage clamping ratio. 3.Bidirectional and symmetrical current-voltage characteristics. 4.High surge current suppression capability. 5.Excellent thermal stability.
Pressure sensitive voltage (v)	151 ~ 911		
Maximum operating voltage (Vac)	130 ~ 750		
Operating temperature range (°C)	-40°C ~ 105°C		
		Application scope	Power configuration equipment, communication power supply, antenna, New energy, lighting, railway transportation system.

### PTC Power Thermistor >

#### CPP Series



Size (mm)	φ6 ~ φ25	Product Features	1.Excellent inrush current suppression capability. 2.Long lifespan and high reliability. 3.Comprehensive product series with broad application range.
R25 (Ω)	5 ~ 2000		
Maximum operating voltage (Vac)	140 ~ 500		
Curie Temperature (°C)	80°C ~ 220°C		
		Application scope	UPS power supply, OBC, Energy storage inverter pre charging and pre discharging, ballast, Lighting fixtures, power adapters.

## Company Profile

Founded in 2015 as an affiliate of the renowned listed company CviLux Group, the company initially focused on NTC temperature sensors. In recent years, due to a surge in customer demand, it has integrated resources within the group and expanded its product line into protection devices. It is a technology-driven enterprise that combines R&D, production, and customized services. Rooted locally and connected globally, CviLux sensor is committed to becoming a world-leading manufacturer of sensors and protection devices.

Our products are widely used in various fields including automotive, industrial, medical, consumer electronics, and energy management. The company is headquartered in Dongguan, Guangdong, with manufacturing facilities distributing across Dongguan, Suzhou, Chongqing, Hefei, and Vietnam.

Our products are marketed globally, covering Europe, Asia, and the Americas, and through efficient information systems, local distributors can provide real-time service to local end customers. We will continue to strive to expand overseas markets and actively seek cooperation with world-renowned manufacturers on OBM/ODM/OEM cases.

In the past, CviLux sensor was well-known for its stability, speed, and high quality; In the future, CviLux sensor will continue to improve and provide faster, better, and high value-added products and services to meet your needs.

## Over-Voltage Protection

### TLMOV Thermally Protected Varistor >

#### Thermal Link & MOV(TLMOV)



Size (mm)	φ14,φ20,φ25	Product Features	1.Small PCB footprint, space-saving. 2.Optional remote signaling function. 3.Enclosed thermal protection action space, safe and reliable. 4.Thermal protection function prevents fires caused by varistor degradation. 5.Optional status indication access point.
Pressure sensitive voltage (v)	151 ~ 911		
Maximum operating voltage (Vac)	130 ~ 750		
Operating temperature range (°C)	-40°C ~ 105°C		
		Application scope	Surge protectors, industrial power supplies, Lightning protection socket.

## Learn more



Official website QR code



Official Account QR Code

# Temperature Protection And Detection

## NTC Thermistor Components >

### SMD Chip Thermistor



Size (mm)	0402,0603,0805,1206	Product Features	1.Complies with RoHS requirements. 2.High accuracy. 3.Small size, lightweight 4.Stable electrical performance, high reliability. 5.Lead-free, excellent solderability.
R25 (Ω)	1K~470K		
B25/50,B25/85 (K)	3380~4750	Application scope	Electronic products, household appliances, medical equipment, Industrial manufacturing and communication equipment
Operating temperature range (°C)	Conventional:-40°C~+125°C Vehicle regulations:-40°C~+150°C		

### Glass Encapsulated Type for Temperature Sensing



Size (mm)	Φ0.8 ~ Φ2.0 line length 12 ~ 175	Product Features	1.Complies with RoHS requirements. 2.Glass encapsulation, resistant to high temperatures. 3.High temperature measurement accuracy. 4.Small size, fast response speed.
R25 (Ω)	0.5 ~ 2500K		
B25/50,B25/85 (K)	3200 ~ 5300	Application scope	Air conditioners, Heating equipment, Electronic thermometers, Liquid level sensors, Automotive electronics, Electronic desk calendars
Operating temperature range (°C)	-55°C ~ 300°C		

### Glass Encapsulated Type for Temperature Sensing



Size (mm)	φ1.3 ~ φ2.3	Product Features	1.Good stability, high reliability. 2.Wide resistance range, high accuracy. 3.Suitable for use in harsh environments like high temperature and high humidity. 4.Small size, lightweight. 5.Sturdy structure, automated installation. 6.Fast thermal response, high sensitivity.
R25 (Ω)	5K ~ 500K		
B25/50,B25/85 (K)	3200 ~ 5300	Application scope	Home appliances, Battery packs, Office automation equipment, Instrument coils, Integrated circuits
Operating temperature range (°C)	-55°C ~ 300°C		

### CNSE Series Epoxy resin encapsulation structure



Size (mm)	φ1.5 ~ φ3	Product Features	1.High temperature measurement accuracy. 2.Small size. 3.Fast response speed.
R25 (Ω)	1K ~ 470K		
B25/50,B25/85 (K)	3380 ~ 4750	Application scope	Air conditioning equipment, Heating equipment, Electronic thermometers, Automotive electronics, Electronic desk calendars, Mobile phone batteries
Operating temperature range (°C)	-40°C ~ 105°C		

## NTC Sensor >

### CNSA Series Electrical terminal structure



Size (mm)	φ3.2 ~ φ8.4	Product Features	1.High stability. 2.Good moisture resistance and durability. 3.Easy to fix with screws or spot welding. 4.Standard tab terminal sensor, easy to install.
R25 (Ω)	1K ~ 470K		
B25/50,B25/85 (K)	3380 ~ 4750	Application scope	New Energy Vehicles, Inverters, Server Power Supplies, Energy Storage Equipment Fans and Heaters.
Operating temperature range (°C)	-40°C ~ 150°C		

### CNSE Series Epoxy resin encapsulation structure



Size (mm)	φ3 ~ φ6	Product Features	1.Temperature measurement accuracy up to ±0.1°C. 2.Dual epoxy resin encapsulation model offers better moisture resistance. 3.Fast response characteristics, enabling real-time reflection of temperature changes.
R25 (Ω)	1K ~ 470K		
B25/50,B25/85 (K)	3380 ~ 4750	Application scope	New Energy Vehicles, Server Power Supplies, Air Conditioning Systems, Refrigeration Systems Fan Air Temperature Measurement.
Operating temperature range (°C)	-40°C ~ 150°C		

### CNSF Series Metal Tube (Case) Structure



Size (mm)	M4 ~ M8	Product Features	1.Temperature measurement accuracy up to ±0.1°C. 2.Dual epoxy resin encapsulation model offers better moisture resistance. 3.Fast response characteristics, enabling real-time reflection of temperature changes.
R25 (Ω)	1K ~ 470K		
B25/50,B25/85 (K)	3380 ~ 4750	Application scope	New Energy Vehicles, Water Heaters, Server Power Supplies, Smart Toilets, Heat Sink Temperature Measurement, Temperature Control Systems.
Operating temperature range (°C)	-40°C ~ 180°C		

### CNSH Series Combination Type Structure



Size (mm)	φ4 ~ φ6	Product Features	1.Temperature measurement accuracy up to ±0.1°C. 2.Flexible and convenient connection. 3.Diverse measurement methods. 4.High precision and high sensitivity 5.Strong adaptability, easy to expand.
R25 (Ω)	1K ~ 470K		
B25/50,B25/85 (K)	3380 ~ 4750	Application scope	New Energy Vehicles, Industrial, Server Power Supplies, Robots, BMS Energy Battery Systems, Temperature Control Systems.
Operating temperature range (°C)	-40°C ~ 150°C		

### Customized Design



Size (mm)	Customized
R25 (Ω)	1K ~ 470K
B25/50,B25/85 (K)	3380 ~ 4750
Operating temperature range (°C)	-40°C ~ 150°C

## Platinum Temperature Sensor >

### CPS Series



Size (mm)	Epoxy resin encapsulation structure	φ6Max	Product Features	1.High Accuracy. 2.Wide Temperature Measurement Range. 3.Excellent Temperature Stability and High Reliability. 4.Strong Anti-Interference Capability. 5.Multiple Wiring Configurations 6.Standardization and Good Compatibility.
	Metal Case Structure	φ4 ~ φ8		
	Plastic pipe type	φ5Max		
R0 (Ω)	100 ~ 1000	Application scope	Aircraft, Drones, Home Appliances Medical Equipment, Industrial Manufacturing, Communication Equipment New Energy.	
T.C.R (ppm/K)	3850			
Operating temperature range (°C)	-60°C ~ 400°C			

## Platinum Temperature Transmitter >



Size (mm)	G1/2,G1/4,M20*1.5 etc	Product Features	1.Anti vibration and impact resistance. 2.High precision and fast response. 3.High long-term stability. 4.High reliability and long lifespan. 5.Wide measurement range.
R0 (Ω)	100 ~ 1000		
Range of measurement(°C)	-40°C ~ 100°C	Application scope	Energy storage systems, power industry, industrial systems, automotive, Air conditioning, electronic calendar.
Accuracy level(°C)	0.2°C ~ 0.5°C		

## Thermal Fuse >

### Thermal-link



Size (mm)	5.8 ~ 15.5	Product Features	1.Laser-marked housing. 2.Flame-retardant casing. 3.One-time operation, non-resettable. 4.Precise actuation temperature. 5.Eco-friendly product.
Rated voltage(V)	250 ~ 450		
Rated current(A)	1 ~ 50	Application scope	Lighting fixtures, Motor, household appliances, battery, switch power supplies,
Rated operating temperature(°C)	76°C ~ 205°C		