

# Dongguan Linkun Electronic Technology Co., Ltd.

## PTC Temperature Sensor



- ◆ Small size, fast response speed
- ◆ Differentiate the operating temperature by lead color

### Product Description

#### Applications

Used for over-temperature protection of important components and mechanical parts such as motor windings, transistors, thyristors, etc.:

- ◆ Extreme temperature detection
- ◆ Electric motors
- ◆ Mechanical engineering
- ◆ Heavy motors

#### Features

- ◆ Small size, fast response speed
- ◆ Differentiate the operating temperature by lead color

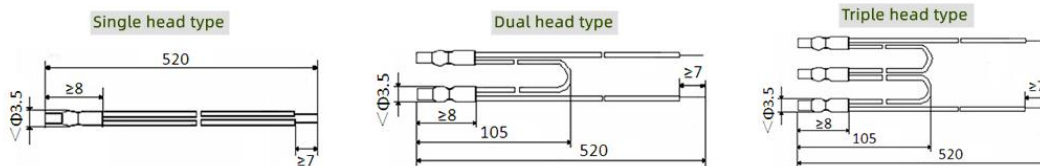
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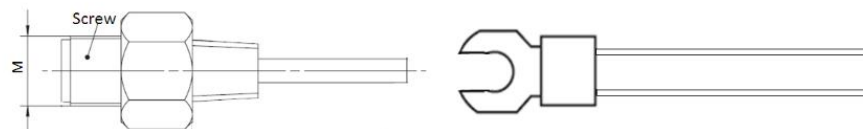
<https://linkunelectronics.en.alibaba.com> [www.lk-thermistor.com](http://www.lk-thermistor.com)

## Structure and size

### Lead type PTC sensor



### Fixed type PTC sensor



## Lead type PTC sensor parameters

Project		Single head	Two heads	Three heads
Max operating voltage	$V_{max}$	32V	32V	32V
Rated operating temperature	$T_R$	60°C~180°C	60°C~180°C	60°C~180°C
Action temperature deviation range		$\pm 5^\circ\text{C}$	$\pm 5^\circ\text{C}$	$\pm 5^\circ\text{C}$
Repeatability of operating temperature	$\Delta T_R$	$\pm 0.5^\circ\text{C}$	$\pm 0.5^\circ\text{C}$	$\pm 0.5^\circ\text{C}$
25°C Zero power resistance	$R_{25}$	$\leq 100\Omega$	$\leq 200\Omega$	$\leq 300\Omega$
Resistance value at $T_R - 5^\circ\text{C}$	$R_{T_R-5}$	$\leq 550\Omega$	$\leq 1100\Omega$	$\leq 1650\Omega$
Resistance value at $T_R + 5^\circ\text{C}$	$R_{T_R+5}$	$\geq 1330\Omega$	$\geq 2660\Omega$	$\geq 3990\Omega$
Resistance value at $T_R + 15^\circ\text{C}$	$R_{T_R+15}$	$\geq 4\text{k}\Omega$	$\geq 8\text{k}\Omega$	$\geq 12\text{k}\Omega$
Thermal response time	$t_s$	$\leq 5\text{s}$	$\leq 5\text{s}$	$\leq 5\text{s}$
Insulation voltage		2.5kV	2.5kV	2.5kV
Max operating temperature		200°C	200°C	200°C
Storage temperature		-25~160°C	-25~160°C	-25~160°C

## The operating temperature corresponding to the lead color

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TR(°C)	Single head	Two heads	Three heads
60	White-Gray	White-Yellow-Gray	White-Yellow-Yellow-Gray
70	White-Brown	White-Yellow-Brown	White-Yellow-Yellow-Brown
80	White-White	White-Yellow-White	White-Yellow-Yellow-White
90	Green-Green	Green-Yellow-Green	Green-Yellow-Yellow-Green
100	Red-Red	Red-Yellow-Red	Red-Yellow-Yellow-Red
105	Blue-Gray	Blue-Yellow-Gray	Blue-Yellow-Yellow-Gray
110	Brown-Brown	Brown-Yellow-Brown	Brown-Yellow-Yellow-Brown
115	Blue-Green	Blue-Yellow-Green	Blue-Yellow-Yellow-Green
120	Gray-Gray	Gray-Yellow-Gray	Gray-Yellow-Yellow-Gray
125	Red-Green	Red-Yellow-Green	Red-Yellow-Yellow-Green
130	Blue-Blue	Blue-Yellow-Blue	Blue-Yellow-Yellow-Blue
135	Red-Black	Red-Yellow-Black	Red-Yellow-Yellow-Black
140	White-Blue	White-Yellow-Blue	White-Yellow-Yellow-Blue
145	White-Black	White-Yellow-Black	White-Yellow-Yellow-Black
150	Black-Black	Black-Yellow-Black	Black-Yellow-Yellow-Black
155	Blue-Black	Blue-Yellow-Black	Blue-Yellow-Yellow-Black
160	Blue-Red	Blue-Yellow-Red	Blue-Yellow-Yellow-Red
165	Blue-Brown	Blue-Yellow-Brown	Blue-Yellow-Yellow-Brown
170	White-Green	White-Yellow-Green	White-Yellow-Yellow-Green
180	Red-White	Red-Yellow-White	Red-Yellow-Yellow-White

### Model Format

