

浙江悦和科技有限公司

### **Product model**

TSC303005-J32

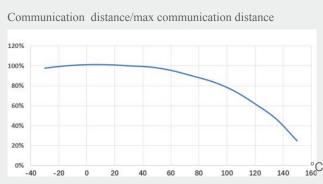
### **Product introduction**



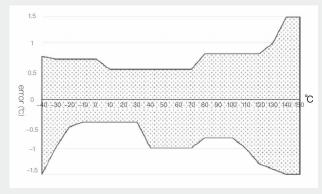
TSC303005-J32 is a temperature sensor specially designed for power busbar and the other complex environments, which has characters, such as wide temperature measurement scope, high precision, long communication distance and small dimension and convenient installation, especially applicable for temperature measurement applications under all kinds of metal environments, it is applicable to the power, energy and special process production line, etc.



**Temperature measurement scope** 



Normalization sensor read distance and temperature relationship curve



Temperature error curve in range

### Key parameters

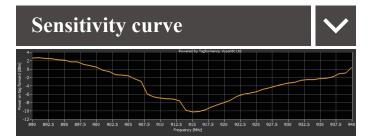


#### **Core performance**

| EPC Global C1G2 v1.2   |
|--|
| 902MHz~928MHz  |
| 8.0m   |
| LTU3 series  |
| 128 bits   |
| 96 bits  |
| 160 bits (user editable part-128bits, sensor parameter-32bits) |
| <2MHz  |
| 100, 000 cycles  |
|  |

#### Use environment (Application background)

| Working temperature    | -40°C~+150°C                   |
|------------------------|--------------------------------|
| Endurance temperature  | -40°C~+225°C                   |
| IP protection grade    | IP55                           |
| Fall                   | 1 m 200 times (plastic ground) |
| Application background | Power busbar                   |
| Data retention         | >25 years                      |





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### Clip button sensor — TSC303005-J32

#### www.johar.cn Tel:0571-88560873

## Installation methods and examples

Installation method: Fix the clip on the busbar.



## **Key features**



- Battery free, safe and reliable;
- Independent IDs, data never interface with each other;
- UHF RFID technology is used, which is not affected by the electrical parameters and power load of primary equipment;
- Long temperature measurement range:  $-40^{\circ}C \sim +150^{\circ}C$ ;
- Ultra high temperature resistant design ensures no damage at - 40°C~+225°C;
- Contact with the actual hot spot, achieve higher accuracy to  $\pm 1^{\circ}C.$
- Combined with busbar:
  - Insulation resistance $\geq 2000 M\Omega$
  - Power frequency withstand voltage: 39kV/ 5min

42kV/1min

- Partial discharge level: 24kV≤10pC
- Lightning protection grade: 170kV/50ms
- Radiation immunity level:  $\geq 10V/m$



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# Application



• On line temperature real-time monitoring of power switchgear busbar.

# Appearance characters



Color

Black

Size (mm)

66\*35.3\*22

