

Product model

TSC100503X-L32X2

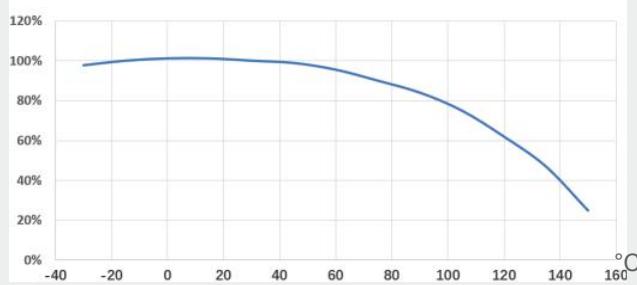
Product introduction

TSC100503X-L32X2 is a nut shaped sensor, this sensor can be directly installed in the ring main unit, power distribution cabinet and other positions to realize on-line real-time temperature monitoring.

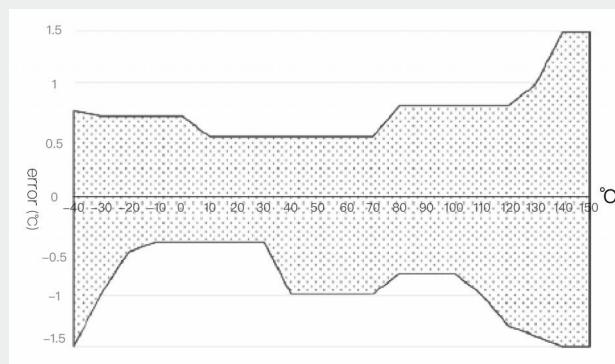


Temperature measurement scope

Communication distance/max communication distance



Normalization sensor read distance and temperature relationship curve



Temperature error curve in range

Key parameters

Core performance

Protocol EPC Global C1G2 v1.2

Frequency 902MHz~928MHz

Communication distance (EIRP=4W) 1.5m

Chip series LTU3 series

TID memory 128 bits

EPC memory 96 bits

User memory 160 bits (user editable part-128bits, sensor parameter-32bits)

Frequency offset <2MHz

With endurance 100, 000 cycles

Use environment (Application background)

Working temperature -40°C~+150°C

Endurance temperature -40°C~+225°C

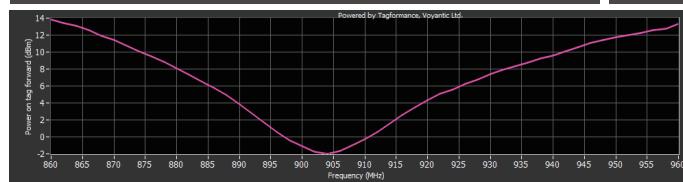
IP protection grade IP55

Fall 1 m 200 times (plastic ground)

Application background Ring main unit plug

Data retention >25 years

Sensitivity curve



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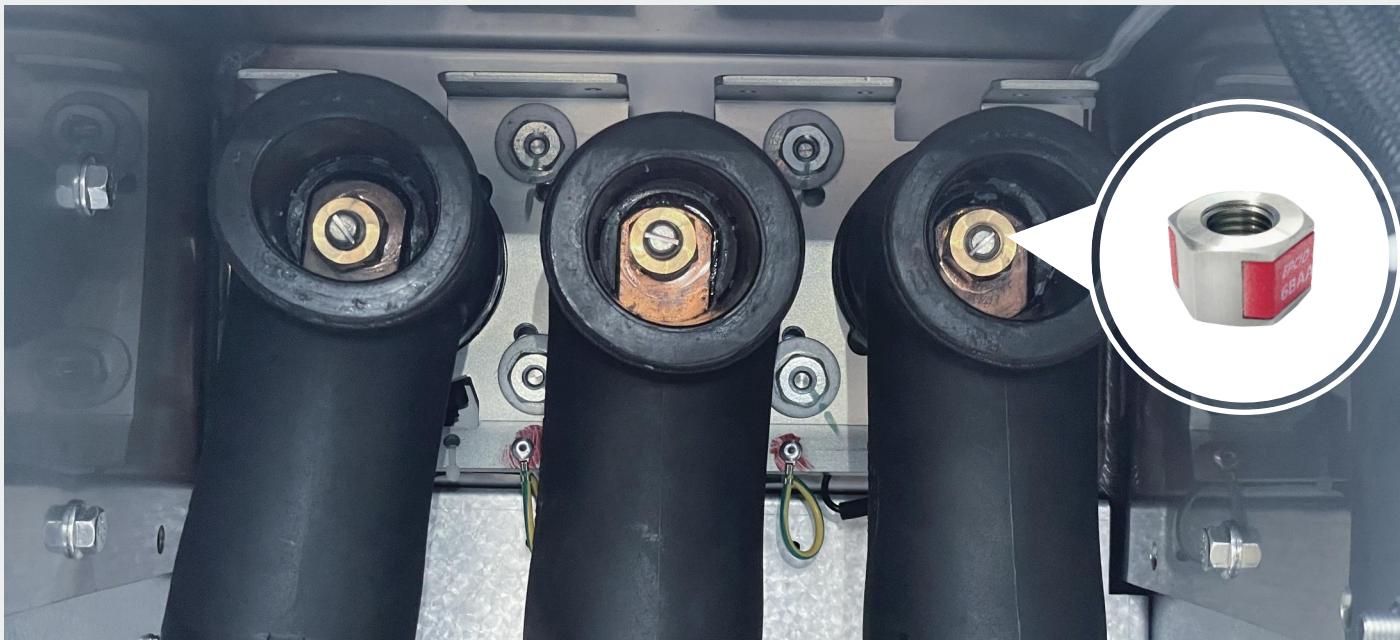
official account

Tel:0571-88560873

www.johar.cn

Installation methods and examples

Installation method: Replace ordinary nut.



Key features

- Battery free, safe and reliable;
- Independent IDs, data never interface with each other;
- Small size, Match the temperature measurement requirements of the plug of the ring network unit;
- UHF RFID technology is used, which is not affected by the electrical parameters and power load of primary equipment;
- Long temperature measurement range: -40°C~+150°C;
- Ultra high temperature resistant design ensures no damage at -40°C~+225°C;
- Contact with the actual hot spot, achieve higher accuracy to ±1°C.
- Combined with plug:
 - Insulation resistance ≥ 2000 MΩ
 - Power frequency withstand voltage: 39kV/ 5min, 42kV/1min
 - Partial discharge level: 24kV ≤ 10pC
 - Lightning protection grade: 170kV/50ms
 - Radiation immunity level: ≥ 10V/m

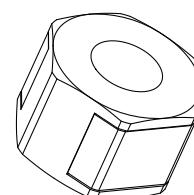
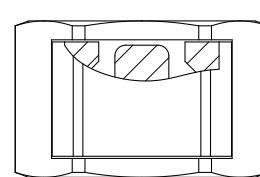
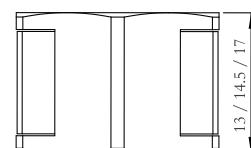
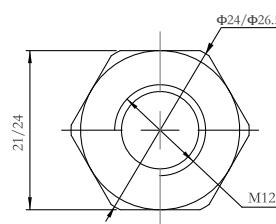
Application

- On line real-time temperature monitoring of ring main unit and distribution cabinet.

Appearance characters

Color	Black
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Size (mm)	24*21*13 / 24*21*14.5 / 26.5*24*17
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