浙江悦和科技有限公司
ZHEJIANG JOHAR TECHNOLOGY CO.,LTD

Snap-in sensor ——TSC250905-K32

www.johar.cn
Tel:0571-88560873

Product model

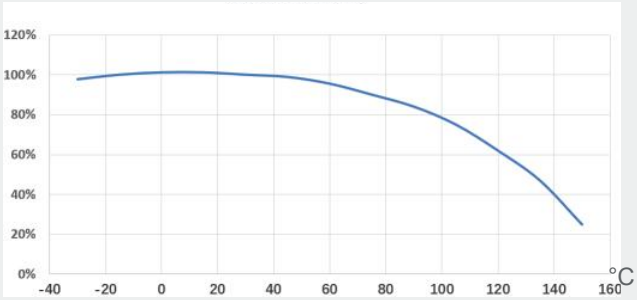
TSC250905-K32

Product introduction

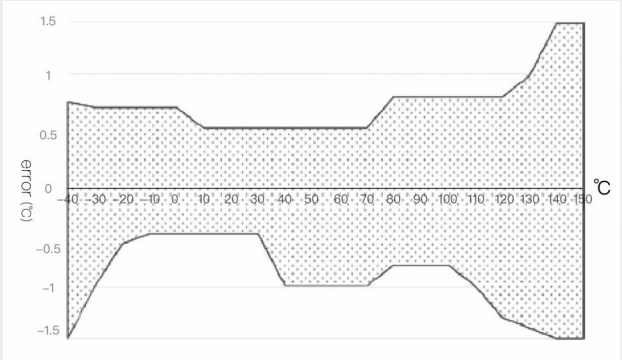
TSC250905-K32 is a temperature sensor specially designed for power switchgear cabinet moving contact, which has characters, such as wide temperature measurement scope, high precision, long communication distance, small dimension. It can be installed without changing the original equipment status of ring main unit and installed directly.

Temperature measurement scope

Communication distance/max communication distance



Normalization sensor read distance and temperature relationship curve



Temperature error curve in range

Key parameters

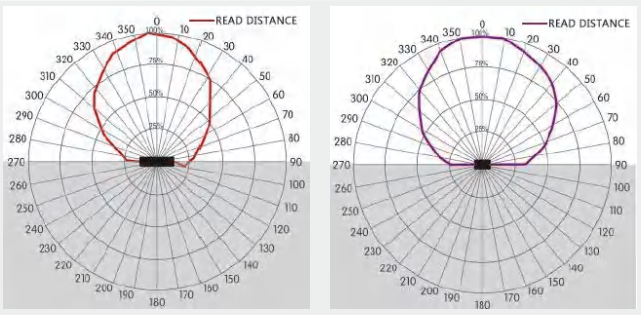
Core performance

Protocol	EPC Global C1G2 v1.2
Frequency	902MHz~928MHz
Communication distance （EIRP=4W）	2.0m
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

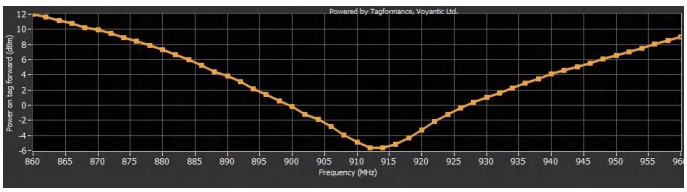
Use environment（Application background）

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	Switchgear moving contact
Data retention	>25 years

Radiation Chart



Sensitivity curve



official account

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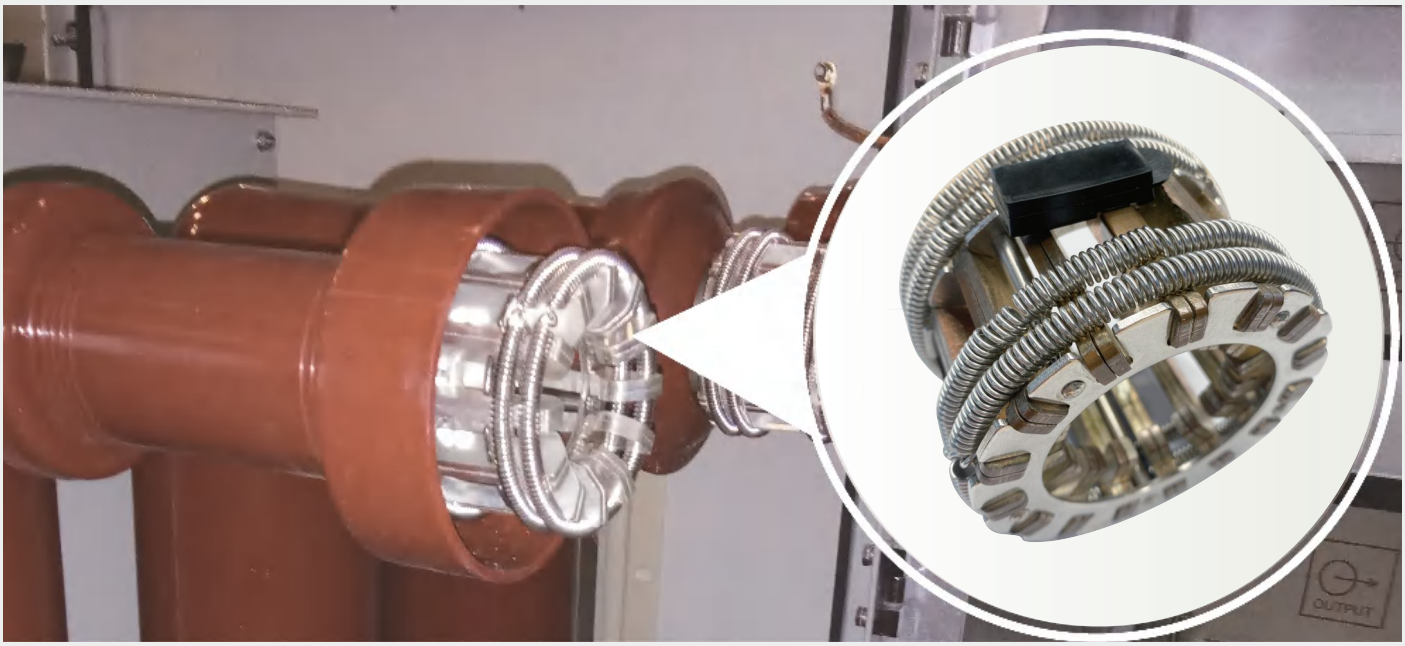
Installation methods and examples

Installation method: The snap is fixed on the moving contact.



Key features

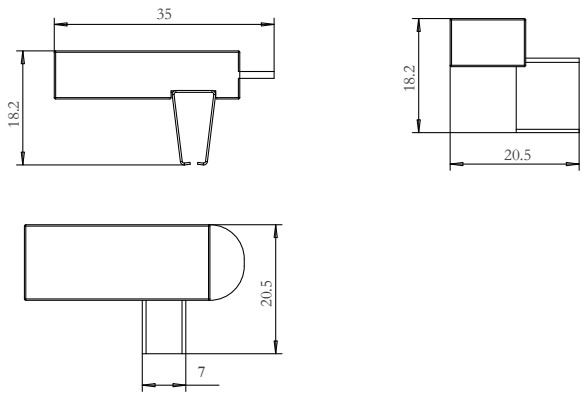
- Battery free, safe and reliable;
- Independent IDs,data never interface with each other;
- Small size，match the temperature measurement requirements of the moving contact of the switchgear;
- UHF RFID technology is used, which is not affected by the electrical parameters and power load of primary equipment;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

Application

- Power switchgear moving contact online temperature real-time monitoring.

Appearance characters

Color	Black
Size (mm)	35*20.5*18.2



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