# Solar module surface temperature sensor

## Features

**Operating temperature range: -40~ + 250℃**
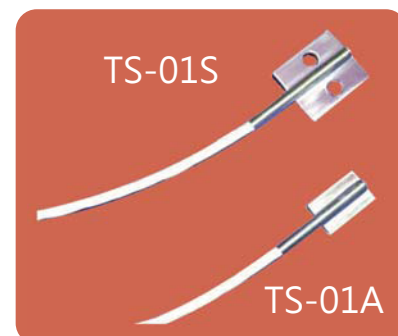**Accuracy in according to DIN IEC 751 A class**
**In according to UL, qualifying to UL94 HB Flammability Standard.**
**Superconducting temperature sensing, fast response, high accuracy.**
**Easy to mount in any adverse circumstances and chemical material surfaces.**
**Applicable to all types of metal, plastic and irregular surface temperatures including**
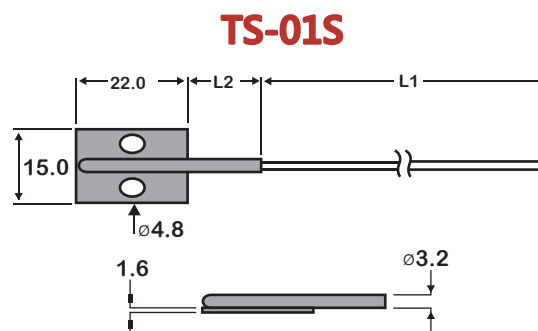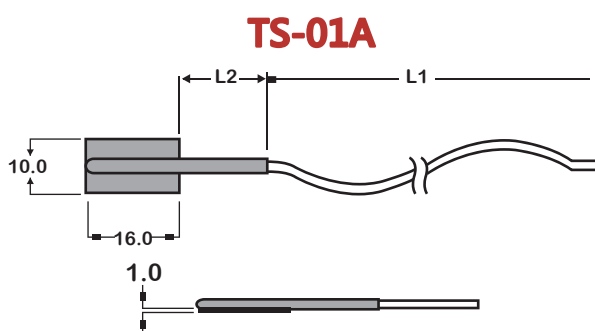**semiconductors, panels, solar module, and meteorological observations.**

TS-01S

TS-01A

## Product details specifications

| Type | TS-01A Patch-type | TS-01S screw type |
|---|---|---|
| **Dimensions** | 10 x 16mm, t=1.0mm | 10 x 22mm, t=1.5mm. |
| **Sensor type** | PT100Ω Class A (other types of sensor or thermal couple accepted) | |
| **extended sensing   wire** | Teflon wire 1M *Customization allowed (tailored made signal wire material, length accepted} | |
| **Response times** | 15s   *fully dense surface mount | |
| **Thermal conductivity** | Under 100℃ ≧0.8W/mk, Above 120℃ ≦1.5W/mk ASTM 5470 | |
| **Mechanical strength** | Tensile strength: 950psi ASTM D412    Elongation: 300% ASTM D412 Tear strength: 150Ib/in$^2$ ASTM D624    Water resistance: IP68 CNS 14165 | |
| **Corrosion resistance** | Petrol, Acetone, Cleaning fluid, Acid-base agent (Base on humidity, ambient temperature) | |
| **Sensor types** | A: Platinum PT100Ω / 50Ω / 1000Ω DIN-Class A B: Thermocouple K, J, E, T, N | |
| **Wire type(s)** | 1.   PVC     2.Silicone     3.Teflon* | |
| **Mounting modes** | 1. super adhesive Tape    2. Stainless Steel clip clamp 3. High purity aluminum tape    4. Screw Holes | |

* Standard length: 3m, 5m, please specify.

**TS-01A**



L2    L1
10.0
16.0
1.0

**TS-01S**



22.0    L2    L1
15.0
⌀4.8
1.6    ⌀3.2