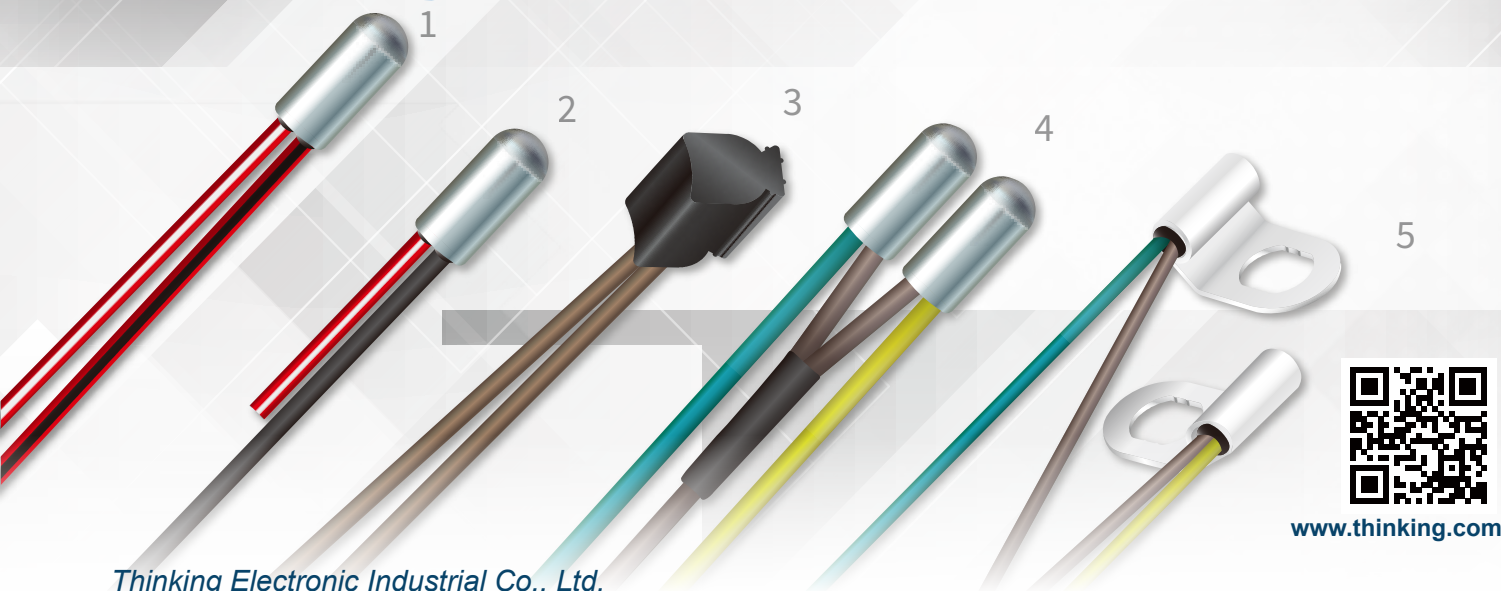
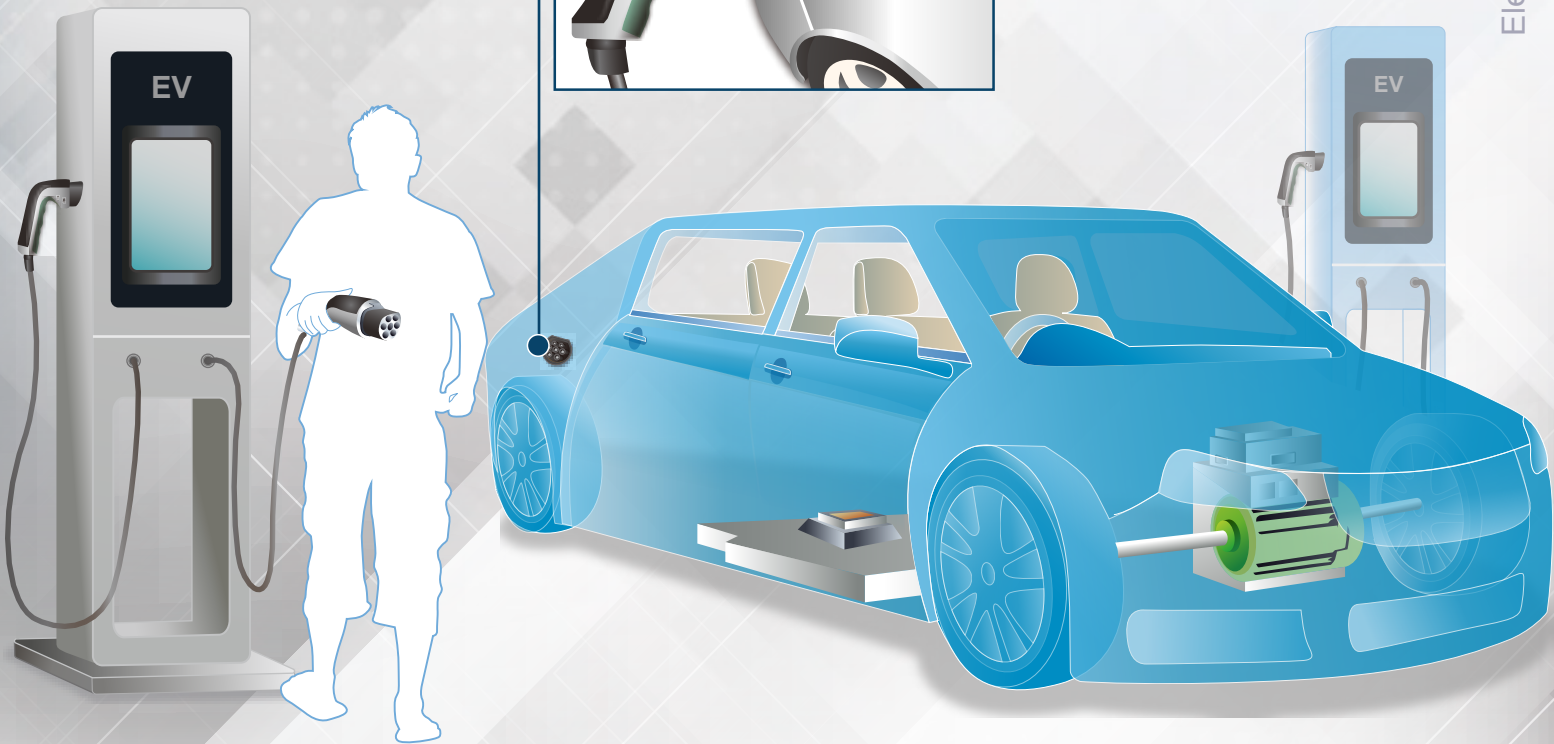
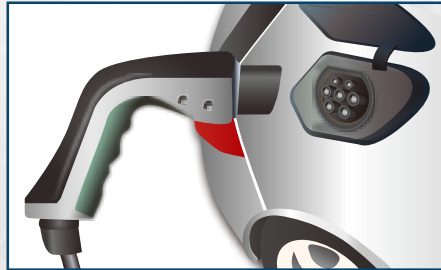


# Electric Vehicle Charging Inlet Application

## THINKING SENSOR

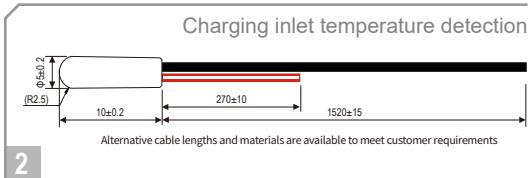
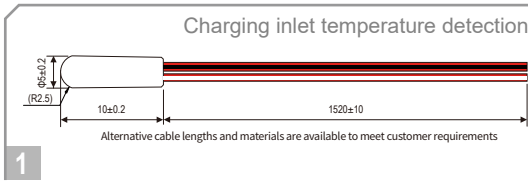
Electric Vehicle Applications

### Charging Inlet



# Charging Inlet Application

## Metal Case Type



**Feature** | Hose barb fitting for mating with rigid polymer hose

**Operation Temperature** | -40~+150°C

**Thermal Time Constant** | Around 15 seconds (in water)

**Moisture Resistance** | 40±2°C 90~95% RH X 100 ±24 hours

**R Value & B Value Option 1** | R25: 100KΩ±1%, B25/50: 3950K±1%

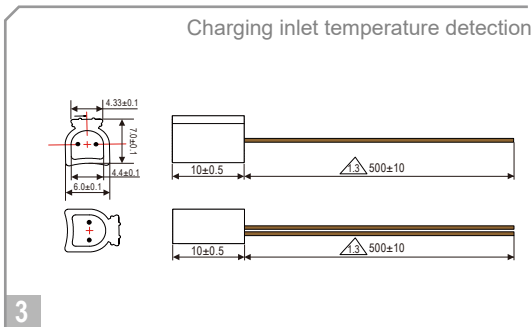
**R Value & B Value Option 2** | R25: 10KΩ±1%, B25/85: 3977K±1%

**Insulation Test** | DC 500V 100MΩ (Min)

**Hi-Pot Test** | AC 1250V 0.5mA (Max)

**Moisture Resistance** | Pass 85°C 85% RH x 1000 hrs test

## Plastic Case Type



**Feature** | Designed for seamless contact between connector and sensor. Good moisture and corrosion resistances.

**Moisture Resistance** | 40±2°C 90~95% RH X 1000±24 hours

**Operation Temperature** | -40~+150°C

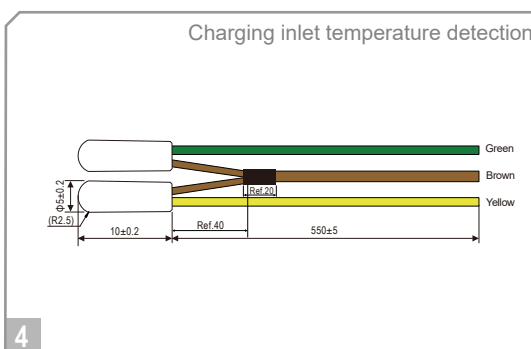
**Insulation Test** | DC 500V 100MΩ (Min)

**R Value** | R25°C=10KΩ±1%      **B Value** | B25/85=3994K±1%

**Thermal Time Constant** | Around 15 seconds (in water)

**Hi-Pot Test** | AC 3500V 10mA (Max)

## Multiple Sensor Structure



**Feature** | Metal sensing tops with high dielectric strength for multiple points temperature detection

**Moisture Resistance** | 40±2°C 90~95% RH X 100±24 hours

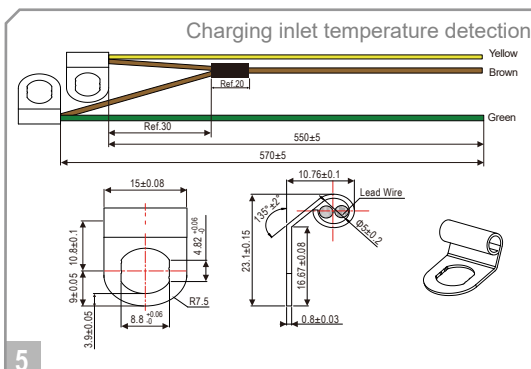
**Operation Temperature** | -40~+150°C

**Insulation Test** | DC 500V 100MΩ (Min)

**R Value** | R25°C=4.7KΩ±1%      **B Value** | B25/100=3985K±1%

**Thermal Time Constant** | Around 15 seconds (in water)

**Hi-Pot Test** | Elements: AC 1500V 0.5mA  
Metal sensing tops: AC 3000V 0.5mA



**Feature** | Moisture and corrosion resistant ring terminals for simple and robust screw-on installation

**Moisture Resistance** | 40±2°C 90~95% RH X 100±24 hours

**Operation Temperature** | -40~+150°C

**Insulation Test** | DC 500V 100MΩ (Min)

**R Value** | R25°C=4.7KΩ±1%      **B Value** | B25/100=3985K±1%

**Thermal Time Constant** | Around 15 seconds (in water)

**Hi-Pot Test** | AC 3000V 0.5mA (Max)