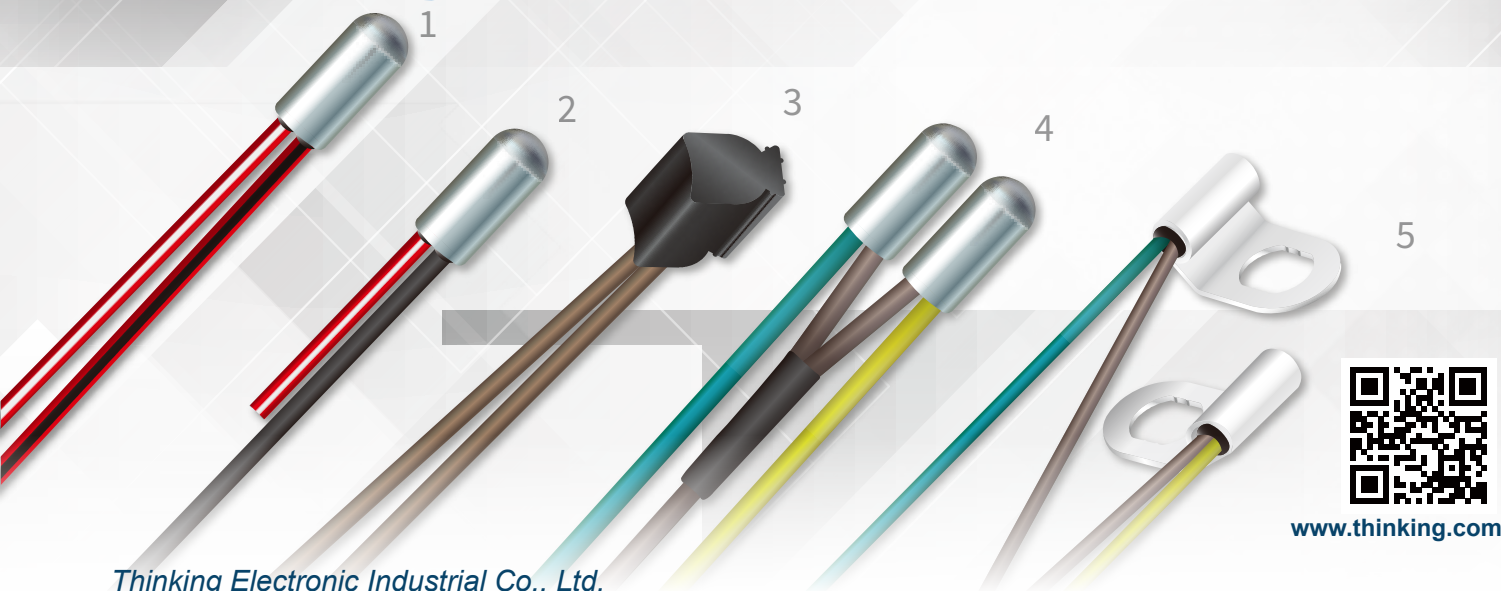
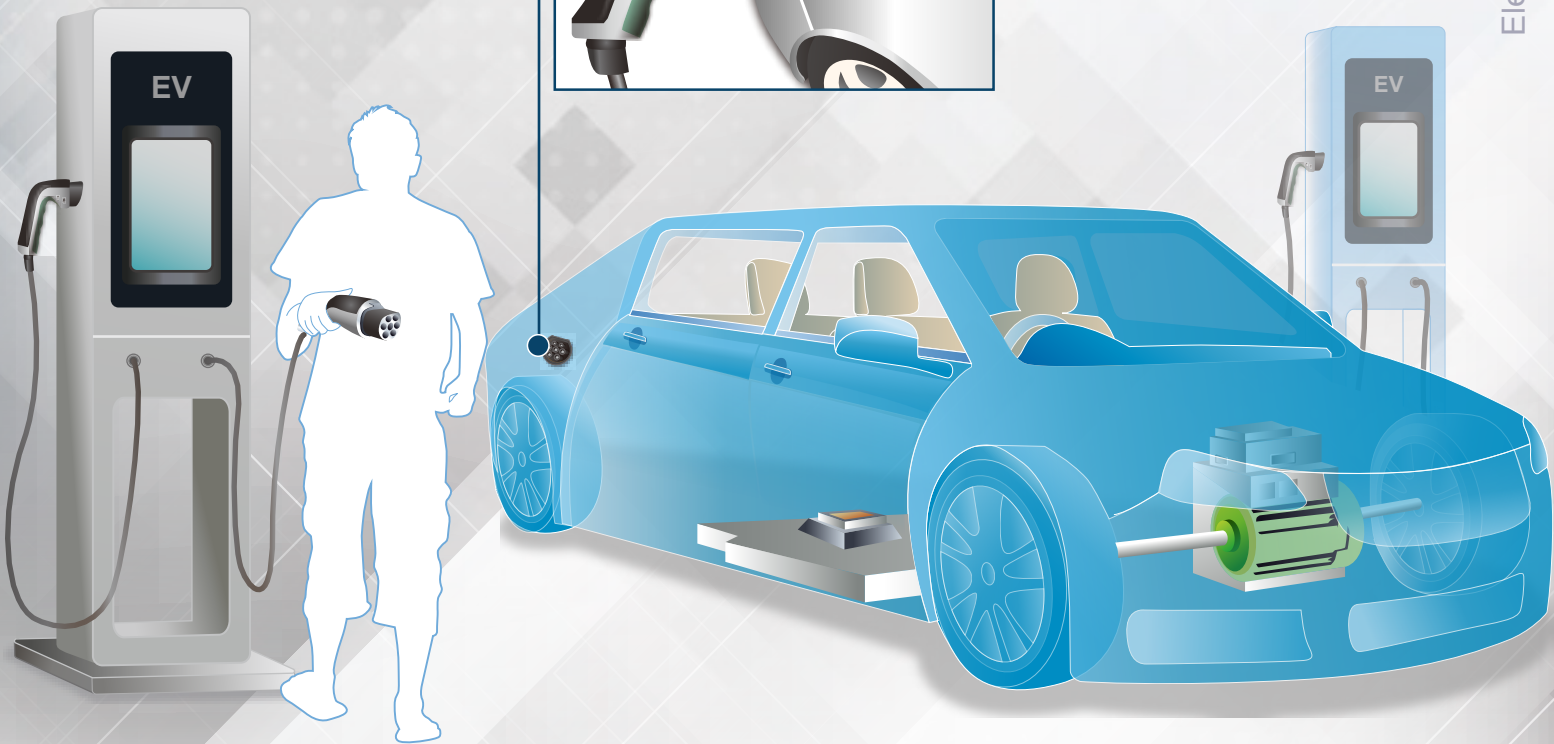
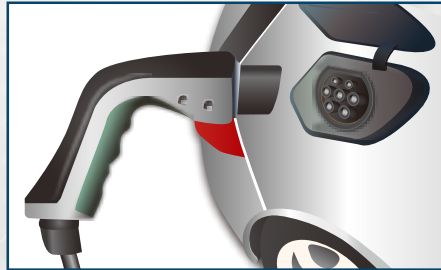


Electric Vehicle Charging Inlet Application

THINKING SENSOR

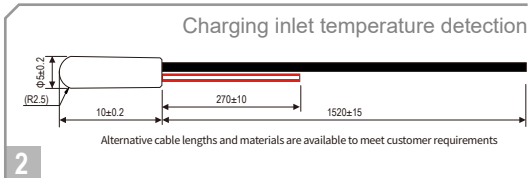
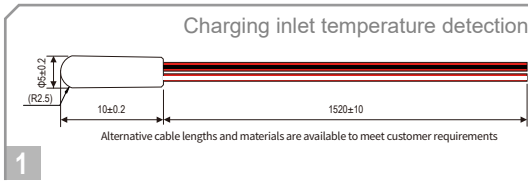
Electric Vehicle Applications

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%

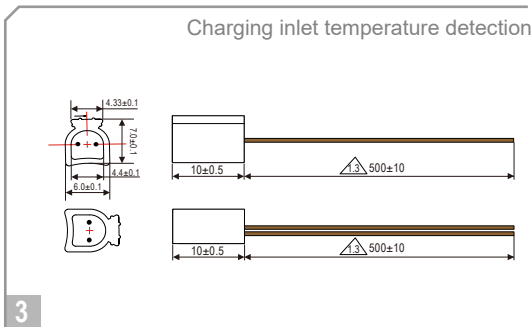
R Value & B Value Option 2 | R25: 10KΩ±1%, B25/85: 3977K±1%

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

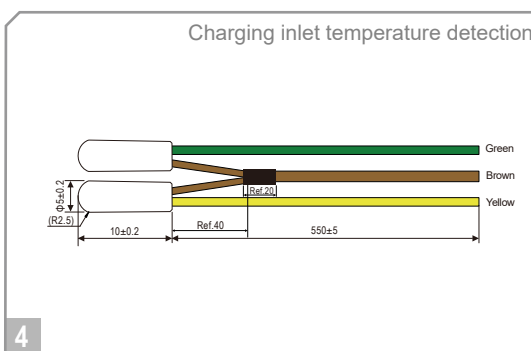
Insulation Test | DC 500V 100MΩ (Min)

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

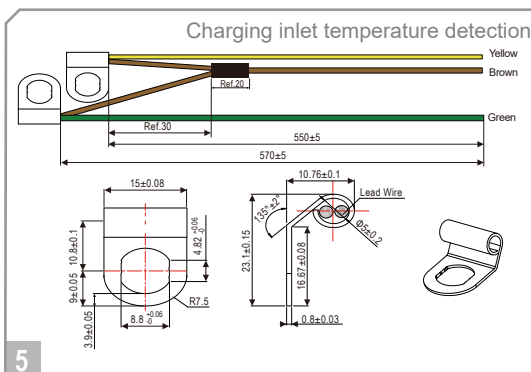
Insulation Test | DC 500V 100MΩ (Min)

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)