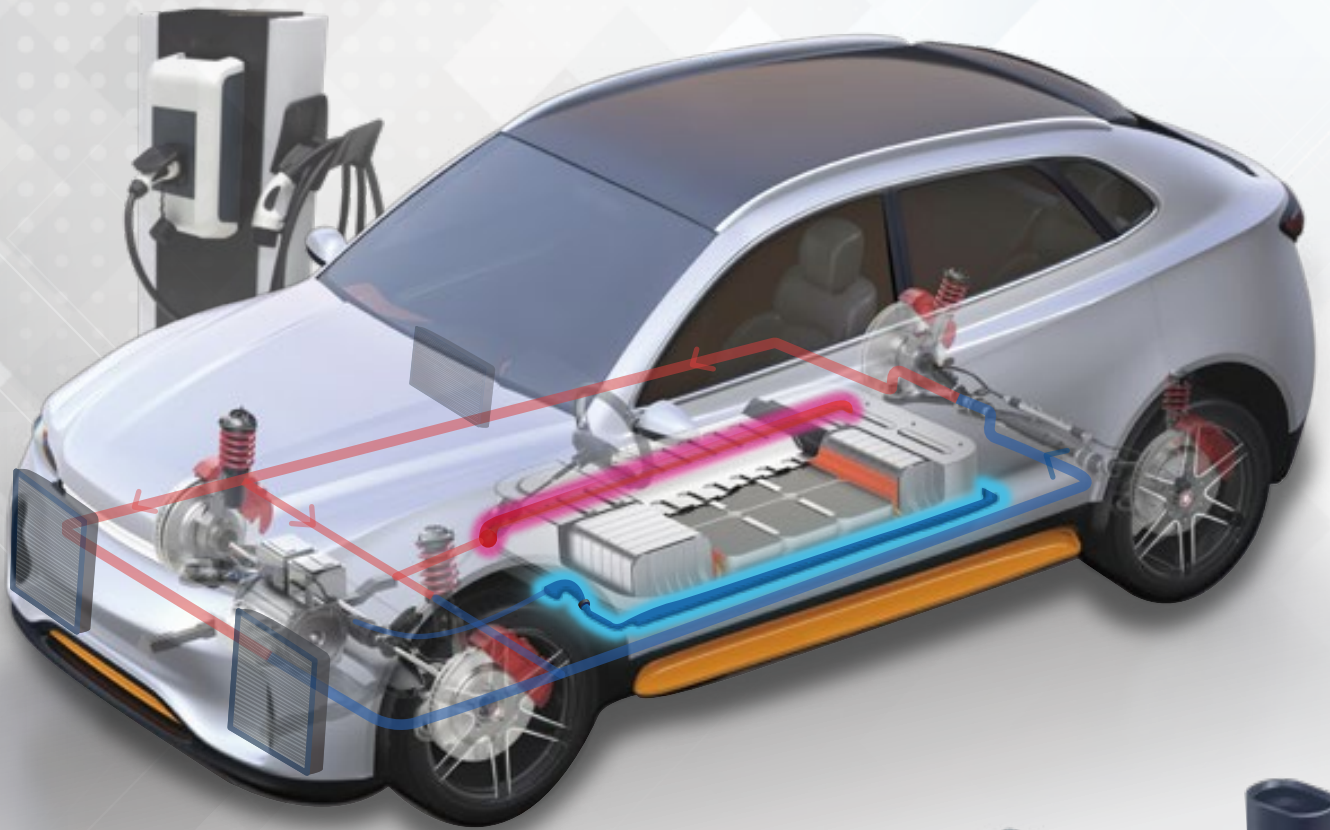


# Electric Vehicle Cooling System Application



THINKING  
SENSOR

Electric Vehicle Application



THINKING Website



# Electric Vehicle Cooling System Application

## Plug-in Type Temperature Sensor for Quick Connector

### Features

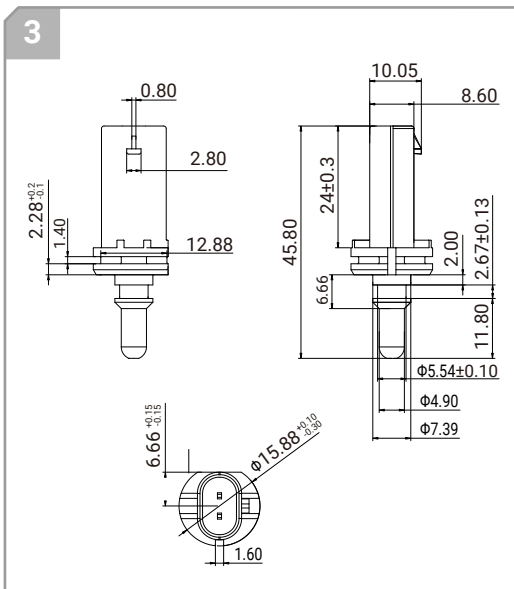
- High measurement accuracy with the temperature shift controlled within  $\pm 1^{\circ}\text{C}$
- Excellent long-term thermal stability
- Easy installation with a compatible quick connector simplifies the assembly process
- Two structures for different quick connector types provide design and installation flexibility

### Applications

- EV battery pack coolant loop temperature monitoring

### Mating Connector

- TE 1718643



**Feature** | 180° structure for assembling with a quick connector

**Operation Temperature** |  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

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

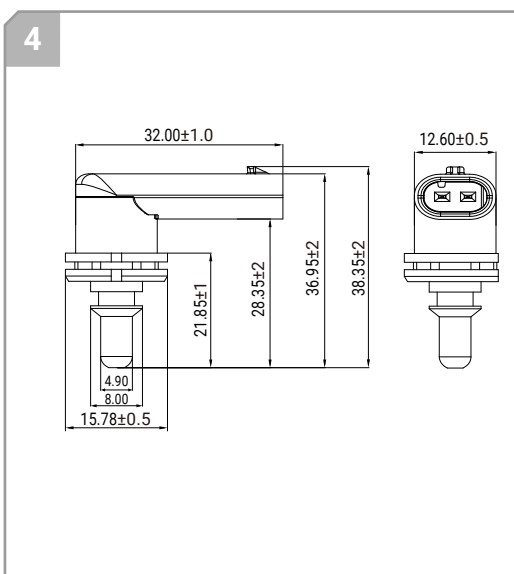
**R Value** |  $R_{25}=10\text{K}\Omega\pm 1\%$

**B Value** |  $B_{25/85}=3435\text{K}\pm 1\%$

**Insulation Test** | DC 500V 100M $\Omega$  (Min)

**Hi-Pot Test** | AC 500V 1mA (Max)

**Moisture Resistance** |  $85^{\circ}\text{C}$  / 85% RH \* 1000 hours



**Feature** | 90° structure for assembling with a quick connector

**Operation Temperature** |  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

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

**R Value** |  $R_{25}=10\text{K}\Omega\pm 1\%$

**B Value** |  $B_{25/85}=3435\text{K}\pm 1\%$

**Insulation Test** | DC 500V 100M $\Omega$  (Min)

**Hi-Pot Test** | DC 500V 0.5mA (Max)

**Moisture Resistance** |  $85^{\circ}\text{C}$  / 85% RH \* 1000 hours

Dimensions in mm