

Non-Contact Infrared (IR) Temperature Sensing for Electrification

Amphenol Advanced Sensors have been manufacturing non-contact infrared (IR) temperature sensors for more than 30 years. Originally developed for the medical market, Amphenol is introducing a novel use of the ZTP IR thermopile for Electrification applications.

All charging systems generate heat. Managing that heat is critical for efficiency and system protection. Non-contact temperature sensing for High Voltage circuits reduces the complexity and improves the safety associated with temperature measurement. Meeting IEC 60664 requirements with high accuracy and fast response, eliminating the risk of dielectric breakdown of sensor insulation for HV components.



Features:

- ~20 millisecond time response
- <1°C Accuracy
- Hermetically-sealed small size
- Low cost

For Measuring the Temperature of:

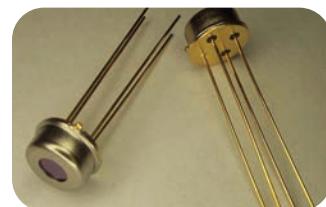
- Switching FETs
- SiC MOSFETs and other inverter components
- Busbar Temperature
- Connections (Charger-to-wire and interconnects)
- Termination components

Applications:

- Charging Cables & Charging Stands
- High Voltage Converters & Transformers
- Battery Storage

Product Information:

- Product prefix: ZTP
 - Non-contact IR
 - Analog & Digital Outputs
 - Hermetically-sealed TO-46 package



In addition to the standard product offerings, Amphenol Advanced Sensors prides itself on its ability to customise unique solutions for customers' specific application needs.

Amphenol
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