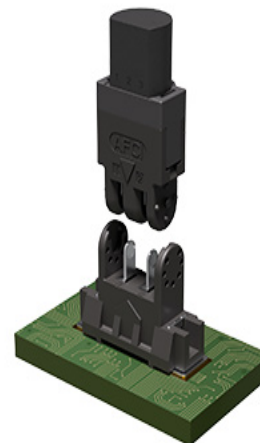


# RotaSense™ 2 Position Temperature Sensor Connector

## ACCURATE AMBIENT TEMPERATURE SENSING TO OPTIMIZE SYSTEM PERFORMANCE

The RotaSense™ 2 Position Temperature Sensor Connector is a cost-effective, two-piece Temperature Sensor Connector that accurately measures ambient temperatures. It optimizes fan speed, and ensures precise control of operating temperatures.

- Designed for closed loop temperature control
- Locking feature to position sensor module under 3 angles (0° / 45° / 90°)
- SMT board connector withstands IR reflow process
- Dielectric Withstanding Voltage: 1000VAC for 60s
- Designed with stacking and tilting feature



### TARGET MARKETS



### FEATURES

- NPN Silicon transistor for temperature sensing
- Locking feature at 0° / 45° / 90° angles
- SMT board connector
- Dual beam contact system
- Receptacle contacts are protected by housing
- Guiding and Polarizing features
- Hold down feature
- RoHS-compliant and lead-free

### BENEFITS

- Accurate ambient temperature measurement
- Stack height reduction with tilt function
- Withstand reflow temperature of 260 °C for 10s
- Connection reliability
- Prevents pin damage during connector mating
- Prevents wrong orientation while mating
- Extra board retention
- Meets environmental, health, and safety requirements

## TECHNICAL INFORMATION

### MATERIAL

- Plating: Matte Tin over Nickel
- Housing: High Temperature Thermoplastic (UL94V0)
- Color: Black

### ELECTRICAL PERFORMANCE

- Dielectric Withstanding Voltage: 1000VAC for 60s
- Reflow temperature of 260°C for 10s

### MECHANICAL PERFORMANCE

- 20 mating cycles
- Locking feature at 0°, 45° and 90° positions

### ENVIRONMENTAL

- Operating Temperature Range: -65°C to +105°C

### APPROVALS AND CERTIFICATIONS

- UL approval: Pending

### SPECIFICATIONS

- Test specifications EIA 364 / IEC test methods

### PACKAGING

- Board Connector – Tape and Reel
- Receptacle Module– Tray

### TARGET MARKETS/APPLICATIONS



Automotive



IT/Datacom



Industrial

## PART NUMBERS

| Description                    | Part Numbers   |
|--------------------------------|----------------|
| 2 position SMT Board Connector | 10178546-102LF |
| 2 position Sensor Assembly     | 10178547-102LF |

Find part number details using the search box on [www.amphenol-cs.com](http://www.amphenol-cs.com)