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590-33BQ01-103



Actual product appearance may vary.

500 Series surface temperature probe

Features

Wide selection of housing options
Choice of custom or existing designs
Operating temperature range design available from -60 °C to 300 °C [-76 °F to 572 °F]

Potential Applications

- Automotive
- White goods
- Communications
- Medical
- Fire detection
- Computers
- Instrumentation test equipment
- Microwave oven probes
- Bulk freight refrigeration
- Digital thermometers
- Drinking and vending machines
- Military
- Aerospace

Description

The 500 Series Probes represents a full range of thermistor and RTDbased temperature sensors. These assemblies have been designed for use in specific applications. Housings may accommodate air/gas, immersion or surface sensing requirements. Housing material ranges from all plastic to all metal. In addition to custom configurations, the customer may also choose from a variety of existing designs.

Supporting Documentation

None Available

| Product Specifications | |
|---------------------------------------|---|
| Thermistor Type | NTC |
| Temperature Sensing Type | Surface |
| Nominal Resistance at 25 °C [77 ° F] | 10,000 Ohm |
| Tolerance | ± 0.1 °C [0.18 °F] |
| Accuracy | 0 °C to 70 °C [32 °F to 158 °F] |
| R- T Curve | 16 |
| Operating Temperature Range | - 60 °C to 125 °C [- 76 °F to 257 ° F] |
| Housing Material | Aluminum |
| Mechanical Interface | M5x0.8 6 g thread |
| Electrical Interface | Lead wires with connector(s) |
| Lead Material | 28 Gauge Teflon insulation |
| Lead Length | 305 mm [12 in] |
| Connector Type | Molex 50 -57 -9402 |
| Time Constant on Metal Surface | 3.0 s |
| Dissipation Constant on Metal Surface | 10 mW/°C |
| Availability | Global |
| Series Name | 500 |

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All Sensing and Control

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