

## MINIATURE SURFACE MOUNT THREADED STUD RTD

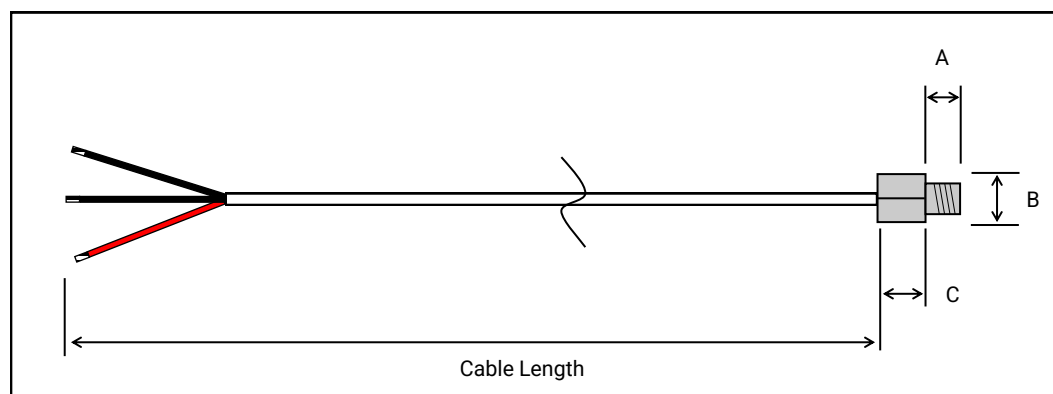
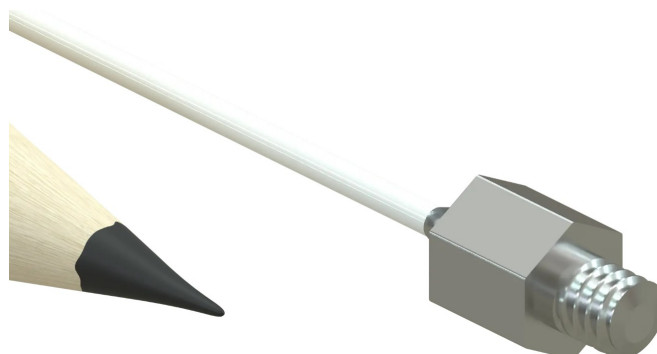
Male Threaded Fitting Surface RTD Temperature Sensor

### FEATURES

- Thin Film PT100 RTD Element
- Stainless steel hex fitting for durability
- Made in the USA
- PFA Teflon™ insulated wires
- Designed for research & development applications

### SPECIFICATIONS

|                                  |                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>RTD element type:</b>         | Thin film platinum, 100Ω at 0°C, α =0.00385<br>or<br>Thin film platinum, 1000Ω at 0°C, α =0.00385                                                                |
| <b>Range:</b>                    | -58 to 450°F (-50 to 232°C)                                                                                                                                      |
| <b>Accuracy:</b>                 | Class A, ±(0.15 + 0.002 ×  T ) °C                                                                                                                                |
| <b>Fitting Housing Material:</b> | 316 Stainless Steel                                                                                                                                              |
| <b>IP Rating:</b>                | IEC IP64                                                                                                                                                         |
| <b>Response Time*:</b>           | 6 Seconds                                                                                                                                                        |
| <b>*Time Constant:</b>           | Defined as the time required to reach 63.2% of an instantaneous temperature change<br>Five time constants are required to approach 100% of the step change value |
| <b>Lead Wire:</b>                | PFA Teflon™ insulated, 26 AWG, stranded conductors                                                                                                               |
| <b>Wiring:</b>                   | 2-wire or 3-wire                                                                                                                                                 |



| Thread Size | A     | B     | C     |
|-------------|-------|-------|-------|
| #6-32       | 0.25" | 0.20" | 0.22" |
| #8-32       | 0.13" | 0.25" | 0.25" |
| #10-32      | 0.20" | 0.28" | 0.28" |
| M4          | 0.20" | 0.28" | 0.28" |
| 1/4"-20     | 0.30" | 0.44" | 0.44" |

### ORDERING INFORMATION

| Model           | RTD Element Type                                           | Cable Length                                                          | Number of Wires                    | Connector                                                                       | Thread Option                                                                                   |
|-----------------|------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>SMTS-RTD</b> | □□□□□                                                      | - □□□                                                                 | - □                                | - □□                                                                            | - □□                                                                                            |
|                 | <b>PT100</b> Platinum 100Ω<br><b>PT1000</b> Platinum 1000Ω | <b>036</b> 36 inches<br><b>072</b> 72 inches<br><b>180</b> 180 inches | <b>2</b> 2-wire<br><b>3</b> 3-wire | <b>N</b> No connector<br><b>FJ</b> Female mini-jack<br><b>MP</b> Male mini-plug | <b>06</b> #6-32<br><b>08</b> #8-32<br><b>10</b> #10-32<br><b>14</b> 1/4"-20<br><b>M4</b> M4x0.7 |

### ORDERING EXAMPLE

**SMTS-RTD-PT100-036-3-N-08:** Threaded Stud RTD, #8-32, PT100 Element, 36 inch long cable, 3-wire, no connector

CUSTOM CONFIGURATIONS AVAILABLE

