

pro^{sense}® RTD Threaded Bolt Sensors



RTD1-N38P14-01

Overview

- Typically used to measure the temperature of the nozzle of an injection molding machine without being in direct contact with the molten plastic.
- The small size of this sensor makes it ideal for other general areas of use such as mounting in bearing housings, sealing bars, heat plates, and other limited space applications
- 100 ohm platinum RTD 3-wire element
- Class A accuracy
- 1/4-28 UNF threaded stainless steel rotating bolt allows for easy installation
- 6-foot lead wires with stainless steel overbraid
- Made in the USA

| RTD Threaded Bolt Sensors | | | | | | |
|---------------------------|---------|---------|---------|----------------|----------------------------------|-----------------------------|
| Part Number | Pcs/Pkg | Wt (lb) | Price | Type | Bolt | Temperature Sensing Range |
| RTD1-N38P14-01 | 1 | 0.25 | \$63.00 | PT 100, 3-wire | 1/4-28 x 3/8" SS - Rotating Bolt | -40 to 316°C (-40 to 600°F) |

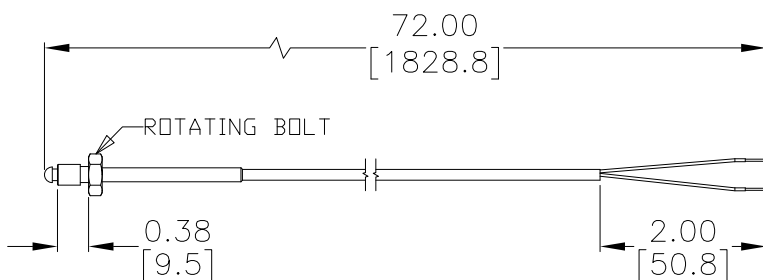
| Technical Specifications | |
|--------------------------|---|
| Sensing Element | Single 100Ω platinum (Pt 100), 3-wire; TCR = 0.00385 Ω/Ω/°C |
| Initial Accuracy | Class A ±[0.15 +0.002 t] °C |
| Response Time | 7 seconds, 63% of a 25 to 77°C step change (ASTM E1137) |
| Wiring | 6 foot stranded 24 AWG wire leads with stripped ends, Kapton insulation and stainless steel overbraid |



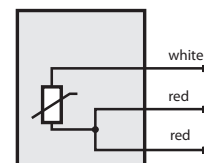
Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.

Dimensions

inches [mm]



Wiring Information



Accessories

| Part No. | Description | Pcs/Pkg | Price |
|---------------|--|---------|---------|
| RTD-SP | RTD 3-pin connector, standard round pin plug, maximum continuous temperature 400°F (200°C), white body, copper pins, 14 AWG maximum (2.0 mm) wire size | 1 | \$9.00 |
| RTD-SJ | RTD 3-pin connector, standard round pin jack, maximum continuous temperature 400°F (200°C), white body, copper pins, 14 AWG maximum (2.0 mm) wire size | 1 | \$11.50 |
| WCB-S | Wire / cable clamp bracket for use with standard thermocouple and RTD connectors | 4 | \$7.00 |

Note: Full listing of accessories and dimension information available at the end of this section. RTD extension lead wire available at www.automationdirect.com