

# prosense® RTD Bolt-On Ring Sensors



## Overview

- Ideal for many surface mount sensing applications
- 100 ohm platinum RTD 3-wire element
- Class A accuracy
- Brass ring construction
- 6-foot lead wires with Kapton insulation and stainless steel overbraid
- Made in the USA

## RTD Probes with Leadwire Transition

| Part Number                    | Pcs/Pkg | Wt (lb) | Price   | Type           | Ring Material | Temperature Sensing Range   | Mounting                                                     |
|--------------------------------|---------|---------|---------|----------------|---------------|-----------------------------|--------------------------------------------------------------|
| <a href="#">RTD1-B01L06-01</a> | 1       | 0.4     | \$76.00 | PT 100, 3-wire | Brass         | -50 to 300°C (-58 to 572°F) | Bolt on #6-#10 (4mm-5mm) screw or bolt size                  |
| <a href="#">RTD1-B02L06-01</a> | 1       | 0.4     | \$80.00 | PT 100, 3-wire | Brass         | -50 to 300°C (-58 to 572°F) | Bolt on #12, 1/4 to 5/16 inch (5mm - 8mm) screw or bolt size |

## Technical Specifications

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

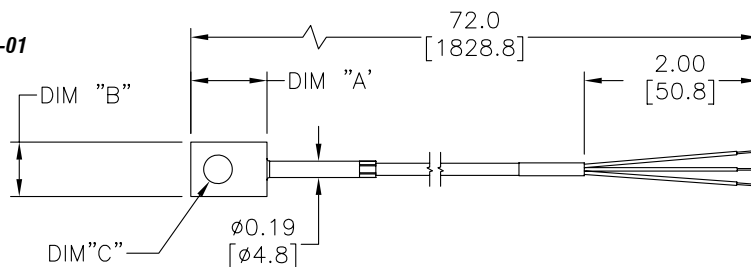


*Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.*

## Dimensions

inches [mm]

RTD1-B0XL06-01



## Wiring Information

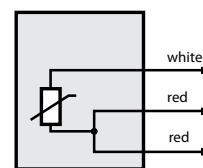


TABLE A

| PART NUMBER    | DIM "A"    | DIM "B"    | DIM "C"     |
|----------------|------------|------------|-------------|
| RTD1-B01L06-01 | 0.63[15.9] | 0.38[9.5]  | ø0.20[ø5.2] |
| RTD1-B02L06-01 | 0.88[22.2] | 0.63[15.9] | ø0.33[ø8.3] |

## Accessories

| Part No.      | Description                                                                                                                                            | Pcs/Pkg | Price   |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| <b>RTD-SP</b> | 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       | \$9.25  |
| <b>RTD-SJ</b> | 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       | \$12.00 |
| <b>WCB-S</b>  | Wire / cable clamp bracket for use with standard thermocouple and RTD connectors.                                                                      | 4       | \$12.00 |

*Note: Full listing of accessories and dimension information available at the end of this section. RTD extension lead wire available at [www.automationdirect.com](http://www.automationdirect.com)*