

# prosense® RTD Adjustable Immersion Sensor

## Overview

- Ideal sensor for the plastics processing industry
- 100 ohm platinum RTD 3-wire element
- Class A accuracy
- Spring adjustable allows for variable immersion depths
- Integral bayonet cap makes installation quick and easy when used with a bayonet adapter or pipe clamp adapter
- Made in the USA



Shown with optional PCA pipe clamp adapter

RTD Probes with Spring Adjustable Immersion								
Part Number	Pcs/Pkg	Wt (lb)	Price	Type	Sensor Dimensions	Lead Wire Length (ft)	Temperature Sensing Range	Mounting
<b><u>RTD1-D08L10-01</u></b>	1	0.3	\$57.00	PT 100, Class A, 3-wire	1/4" length x 3/16" O.D. sensing tip 8" length x 0.263" diameter spring.	10	-50 to 300°C (-58 to 572°F), lead wire transition rated to 400°F (204°C)	Bayonet fitting cap 7/16" inside diameter, single slot. Mount with ProSense bayonet fitting adapter or pipe clamp adapter (purchased separately - see accessories)

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 $\pm[0.15 + 0.002  t ]$ °C
<b>Probe</b>	1/4" length x 3/16" O.D. sensing tip, 316 stainless steel sheath
<b>Response Time</b>	7 seconds, 63% of a 25 to 77°C step change (ASTM E1137)
<b>Wiring</b>	Stranded 24 AWG wire leads with stripped ends, fiberglass insulation and stainless steel overbraid This probe is not sealed and cannot be immersed in liquids.

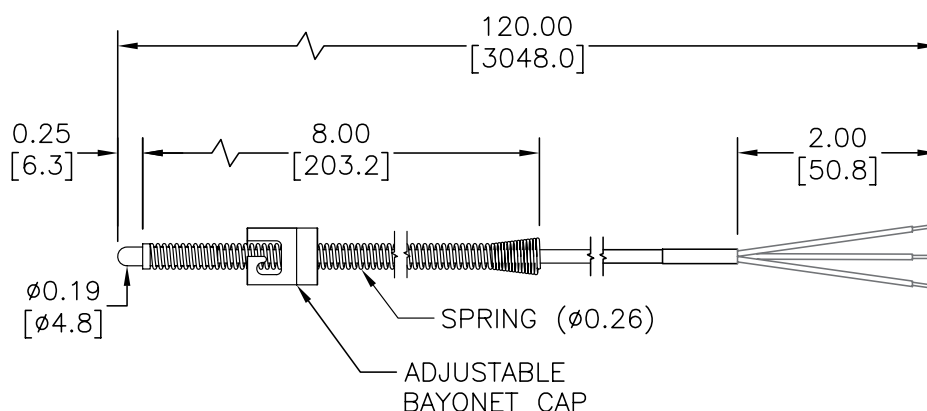


*Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.*

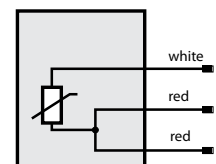
## Dimensions

inches [mm]

**RTD1-D08L10-01**



## Wiring Information



# prosense® RTD Adjustable Immersion Sensor - Accessories

## Accessories

Part No.	Description	Pcs/Pkg	Price
<b><u>RTD-SP</u></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><u>RTD-SJ</u></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><u>WCB-S</u></b>	Wire / cable clamp bracket for use with standard thermocouple and RTD connectors	4	\$12.00
<b><u>BA-078</u></b>	Bayonet adapter, 7/8 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$1.75
<b><u>BA-100</u></b>	Bayonet adapter, 1 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$1.75
<b><u>BA-114</u></b>	Bayonet adapter, 1-1/4 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$2.25
<b><u>BA-112</u></b>	Bayonet adapter, 1-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$2.25
<b><u>BA-200</u></b>	Bayonet adapter, 2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$2.50
<b><u>BA-212</u></b>	Bayonet adapter, 2-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$2.75
<b><u>BA-300</u></b>	Bayonet adapter, 3 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$3.00
<b><u>BA-312</u></b>	Bayonet adapter, 3-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	\$3.50
<b><u>PCA-125</u></b>	Pipe clamp adapter, 11/16 to 1-1/4 inch adjustable diameter, 2-inch attached bayonet adapter with 7/16 inch outside diameter and 9/32 inch inside diameter. Use with Prosense adjustable immersion sensors.	1	\$17.50
<b><u>PCA-200</u></b>	Pipe clamp adapter with 1-1/16 to 2 inch adjustable diameter, 2-inch attached bayonet adapter with 7/16 inch outside diameter and 9/32 inch inside diameter. Use with Prosense adjustable immersion sensors	1	\$18.00
<b><u>PCA-300</u></b>	Pipe clamp adapter with 2-1/16 to 3 inch adjustable diameter, 2-inch attached bayonet adapter with 7/16 inch outside diameter and 9/32 inch inside diameter. Use with Prosense adjustable immersion sensors	1	\$20.00
<b><u>PCA-425</u></b>	Pipe clamp adapter with 3-5/16 to 4-1/4 inch adjustable diameter, 2-inch attached bayonet adapter with 7/16 inch outside diameter and 9/32 inch inside diameter. Use with Prosense adjustable immersion sensors	1	\$22.50
<b><u>PCA-500</u></b>	Pipe clamp adapter with 4-1/8 to 7 inch adjustable diameter, 2-inch attached bayonet adapter with 7/16 inch outside diameter and 9/32 inch inside diameter. Use with Prosense adjustable immersion sensors	1	\$21.00

Note: RTD extension lead wire available at [www.automationdirect.com](http://www.automationdirect.com)

See end of section for full listing of accessories and dimension information.

**BA-078**



**RTD-SJ**



**RTD-SP**



**RTD Connectors**

**BA-114**



**PCA-300**



**Pipe Clamp Adapter**

**BA-300**



**Bayonet Mounting Adapters**