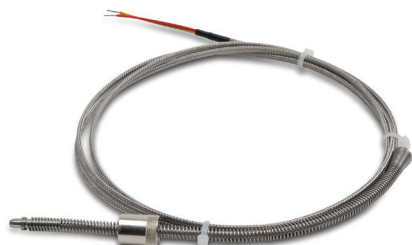# prosense® RTD Adjustable Immersion Sensor

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
RTD1-D08L10-01	1	0.3	$61.00	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

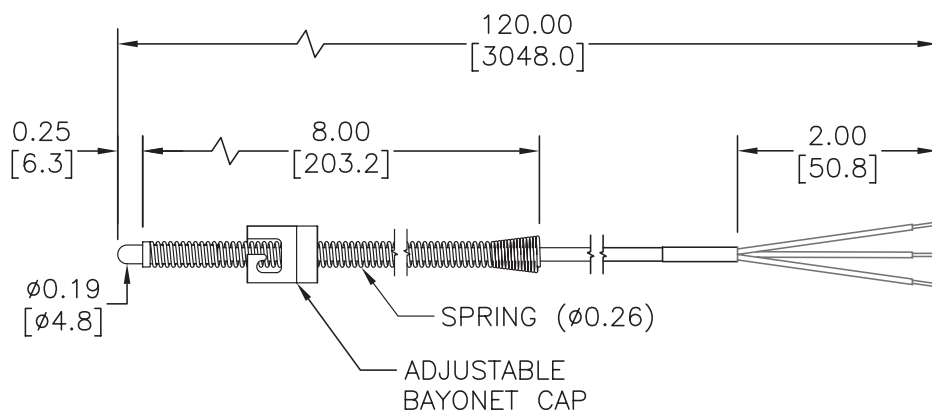|	
Sensing Element	Single 100Ω platinum (Pt 100), 3-wire; TCR = 0.00385 Ω/Ω/°C
Initial Accuracy	Class A ±[0.15 +0.002 |t|] °C
Probe	1/4" length x 3/16" O.D. sensing tip, 316 stainless steel sheath
Response Time	7 seconds, 63% of a 25 to 77°C step change (ASTM E1137)
Wiring	Stranded 24 AWG wire leads with stripped ends, fiberglass insulation and stainless steel overbraid This probe is not sealed and cannot be immersed in liquids.

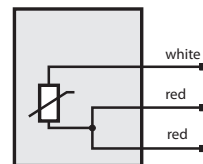*Note: Check the chemical compatibility of the sensor's wetted parts with the medium to be measured.*

Dimensions

inches [mm]

RTD1-D08L10-01

120.00 [3048.0]

0.25 [6.3]

8.00 [203.2]

2.00 [50.8]

Ø0.19 [Ø4.8]

SPRING (Ø0.26)

ADJUSTABLE BAYONET CAP

Wiring Information

white
red
red

prosense® RTD Adjustable Immersion Sensor - Accessories

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	$9.25
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	$12.00
WCB-S	Wire / cable clamp bracket for use with standard thermocouple and RTD connectors	4	$12.00
BA-078	Bayonet adapter, 7/8 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	$1.75
BA-100	Bayonet adapter, 1 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	$1.75
BA-114	Bayonet adapter, 1-1/4 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	$2.25
BA-112	Bayonet adapter, 1-1/2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter,1/8 inch MNPT	1	$2.25
BA-200	Bayonet adapter, 2 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	$2.50
BA-212	Bayonet adapter, 2-1/2 long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	$2.75
BA-300	Bayonet adapter, 3 inch long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	$3.00
BA-312	Bayonet adapter, 3-1/2 long, 7/16 inch outside diameter, 9/32 inch inside diameter, 1/8 inch MNPT	1	$3.50
PCA-125	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	$19.00
PCA-200	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	$19.00
PCA-300	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	$21.00
PCA-425	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	$24.00
PCA-500	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	$22.50

Note: RTD extension lead wire available at www.automationdirect.com
See end of section for full listing of accessories and dimension information.

BA-078

RTD-SJ   RTD-SP

BA-114

RTD Connectors

PCA-300

BA-300

Pipe Clamp Adapter

Bayonet Mounting Adapters