

Explosionproof Sensor Assembly– RTD, Quick Release Spring Loaded Fitting



Variety of Configurations
Single and Dual Elements
Stainless Steel Case with Alloy Tip



Explosionproof Sensor Assembly– RTD, Quick Release Spring Loaded Fitting

- Tip sensitive, spring-loaded temperature sensor assembly
- Used in electric motors and generators for continuous sensing of the temperature of the bearings
- Approved for use in explosionproof and flameproof applications
- U.S. or European threads available

FEATURES

- Sheath Styles:
 - » Stainless Steel with Copper or Aluminum Tip
- Elements, Single and Dual:
 - » Platinum, Copper, Nickel
- Sheath Diameters:
 - » .188", .215", .236" (6.0 mm), .250"

APPLICATIONS

- Motors
- Generators

performance specifications

Temperature Range (Process):
-50°C to 260°C

Material:
Probe: 304 or 316 Stainless Steel with Fast Response Copper or Aluminum Tip
Extension Fittings: 303 Stainless Steel
Connection Head: Epoxy Coated Aluminum or Stainless Steel
Terminal Block: 94V-0 Rated Fiberglass

Pressure Rating:
50 psi (3.4 bar)

Insulation Resistance:
1,000 megOhms minimum between element and case at 500 VDC
100 megOhms minimum between elements at 500 VDC
(dual RTD sensors only)

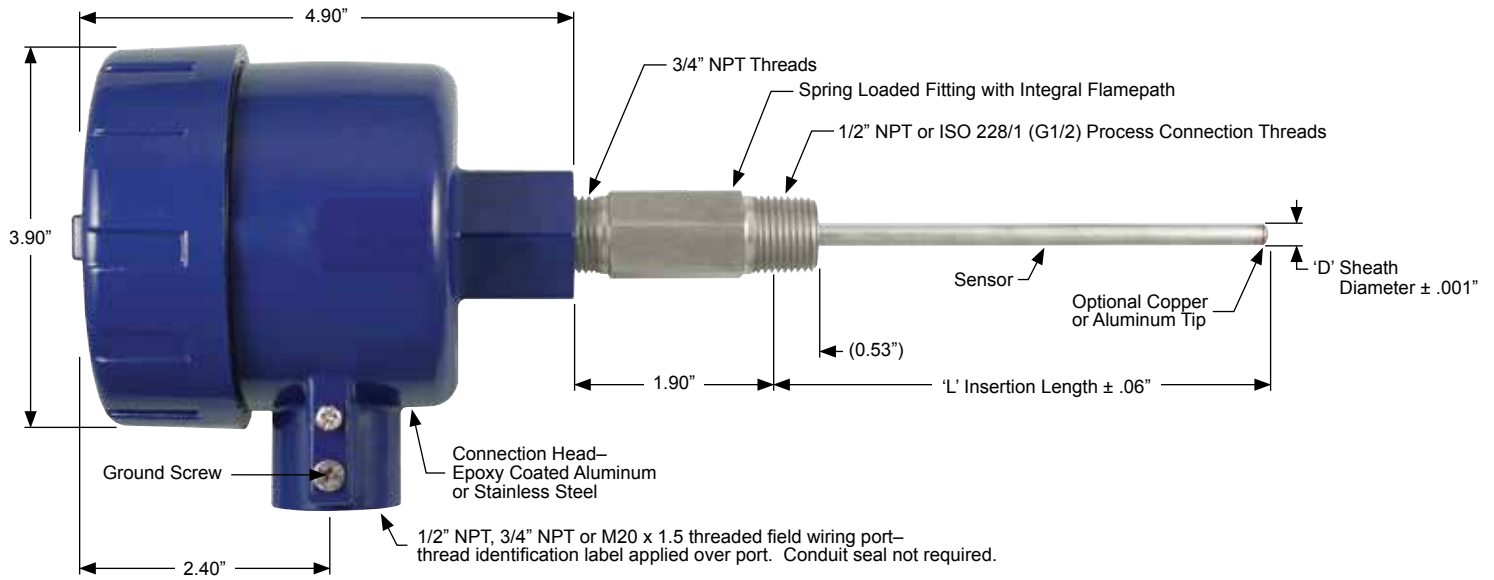
Time Constant (typical 3 ft/sec in moving water):
3 seconds

Explosionproof and Flameproof Ratings:
National and Canadian Electrical Code:
Class I, Division 1, Groups B, C, and D
Class II/III, Division 1, Groups E, F, and G
T5 (Ta=80°C), T6 (Ta=65°C)
National Electrical Code (Article 505):
Class I, Zone 1, AEx d IIC
T5 (Ta=80°C), T6 (Ta=65°C)
Canadian Electrical Code (IEC 60079):
Class I, Zone 1, Ex d IIC
T5 (Ta=80°C), T6 (Ta=65°C)
ATEX:
II 2 G Ex d IIC T5 (Ta= -50°C to 80°C),
T6 (Ta= -50°C to 65°C) Gb

Hazardous Location Rating Verification: For RFQs and Orders, Please Specify Hazardous Location Rating Requirements.

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dimensions



ordering info

Explosionproof Sensor Assembly–RTD, Quick Release Spring Loaded Fitting

Model							
1020	Explosionproof Sensor Assembly–RTD, Quick Release Spring Loaded Fitting						
Element Configuration, Three Wire				Element Configuration, Four Wire			
Single Model	Dual Model	Single Model	Dual Model	Element	Accuracy	TCR	
P2B3S	P2B3D	P2B4S	N/A	Platinum	100 Ohm +/- .12% at 0°C	.00385	
P2A3S	P2A3D	P2A4S	N/A	Platinum	100 Ohm +/- .06% at 0°C	.00385	
G2C3S	G2C3D	G2C4S	N/A	Platinum	100 Ohm +/- .50% at 0°C	.00392	
P6B3S	P6B3D	P6B4S	N/A	Platinum	1,000 Ohm +/- .12% at 0°C	.00385	
C1D3S	N/A	C1D4S	N/A	Copper	10 Ohm +/- .20% at 25°C	.00427	
N3C3S	N3C3D	N3C4S	N/A	Nickel	120 Ohm +/- .50% at 0°C	.00672	
Model 'L' Insertion Length							
---	Define 'L' Length in 0.1 Inch Increments. Minimum Length: 1.0 Inch / Maximum Length: 40.0 Inches						
Model Connection Head (Fiberglass Terminal Block Included)							
R	Large Epoxy-Coated Aluminum Explosionproof						
S	Large Stainless Steel Explosionproof						
Model Connection Head Conduit Thread							
4	1/2" NPT						
5	3/4" NPT						
6	M20 x 1.5 (Model 6 not for use in Canadian Divisions)						
Model Extension Fitting							
F	Spring Loaded Quick Release Fitting (1/2" NPT Process)						
G	Spring Loaded Quick Release Fitting (G 1/2" Process)						
Model Sheath Diameter							
B	.188" Diameter						
D	.215" Diameter						
E	.236" Diameter (6mm)						
C	.250" Diameter						



联系方式



深圳市亿为测控电子有限公司
Shenzhen Bill-Well Measurement & Control Electronics Co., Ltd.

广东省深圳市南山区创业路怡海广场东座2407 邮编：518000

电话：+86 755 2641 9890 传真：+86 755 2641 9680

电子邮箱：sales@bill-well.com