



MEAS EXPLOSION-PROOF SENSOR ASSEMBLY– THERMOCOUPLE, QUICK RELEASE SPRING LOADED FITTING

- ◆ Variety of Configurations
- ◆ Single and Dual Junctions
- ◆ Stainless Steel Case with Alloy Tip

Explosion-proof Sensor Assembly–Thermocouple, 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 explosion-proof and flameproof applications
- ◆ U.S. or European threads available

Features

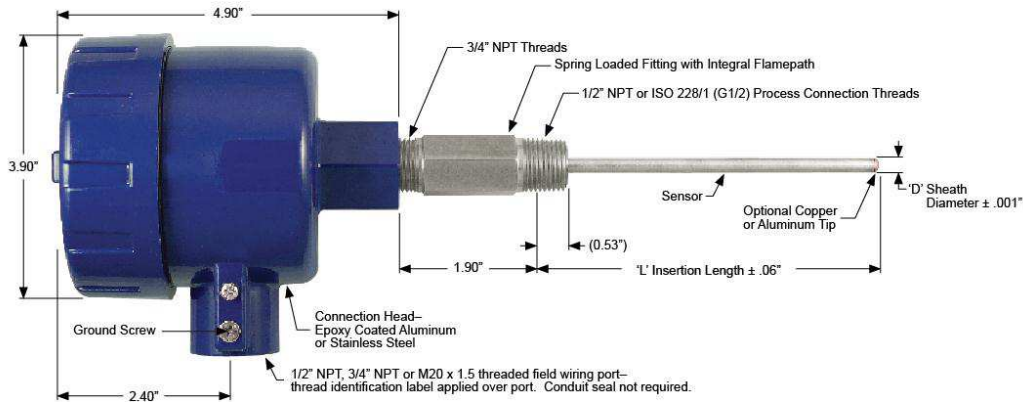
- ◆ Sheath Styles:
 - » Stainless Steel with Copper or Aluminum Tip
- ◆ Junction Types, Single and Dual:
 - » J, K, T, E
 - » Grounded or Ungrounded
- ◆ Sheath Diameters:
 - » .188", .215", .236" (6.0 mm), .250"

Applications

- ◆ Motors
- ◆ Generators

MEAS EXPLOSION-PROOF SENSOR ASSEMBLY- THERMOCOUPLE, QUICK RELEASE SPRING LOADED FITTING

Dimensions



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 – Underground Model Only:

1,000 megohms minimum between element and case at 500 VDC
Dual Junction: 100 megohms minimum between elements at 500 VDC

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

Explosion-proof 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

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Ordering Information

EXPLOSION-PROOF SENSOR ASSEMBLY-THERMOCOUPLE, QUICK RELEASE SPRING LOADED FITTING

Model

1022 Explosion-proof Sensor Assembly-Thermocouple, Quick Release Spring Loaded Fitting

Junction Configuration

Single Model	Dual Model	Thermocouple Type	Color Code
T	TT	Type T	Red/White [Constantan/Iron]
J	JJ	Type J	Red/Yellow [Alumel/Chromel]
K	KK	Type K	Red/Blue [Constantan/Copper]
E	EE	Type E	Red/Purple [Constantan/Chromel]

Model Junction Style

G Grounded
U Ungrounded

Model 'L' Insertion Length

--- Define 'L' Length in 0.1 Inch Increments. Minimum Length: 1.0 Inches / Maximum Length: 40.0 Inches
Example: (120 = 12.0"; 063 = 6.3")

Model Connection Head (Fiberglass Terminal Block Included)

R Large Epoxy-Coated Aluminum Explosion-proof
S Large Stainless Steel Explosion-proof

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



NORTH AMERICA

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