

Variety of Configurations Single or Dual Elements





Increased Safety Sensors– ATEX/IECEx/FM Approved Bearing RTD, Tip Sensitive

- Copper tipped construction for fast thermal response
- Used to continuously monitor the temperatures of motor/generator shaft bearings
- Designed for use in hazardous areas where flammable gas may be present
- EC-type certificate: FM 11 ATEX 0029U
- IECEx certificate: FMG 12.0012U
- This sensor meets the requirements for electrical devices used in hazardous locations of Group II, Category 2 and is marked with an Ex in accordance with: ATEX Directive 94/9/EC.
- EN 60079-0:2009 General Requirements
- EN 60079-7:2007 Increased Safety 'e'
- IEC 60079-0:2011 General Requirements
- IEC 60079-7:2006 Increased Safety 'e'

FEATURES

- Sheath Styles:
 - » 304/316 Stainless Steel
- Elements, Single and Dual:
 » Platinum, Nickel
- Sheath Diameters:
- ».188", .215", .236" (6.0 mm), .250"
- Leadwire/Cable Options

APPLICATIONS

- Motors
- Generators





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performance specifications

Approvals:



II 2 G Ex e IIC Gb FM11ATEX0029 IECEx FMG 12.0021U

Class I, Zone 1, AEx/Ex e IIC MAX 0.01W FM US Marking: Class I, Zone 1, AEx/Ex e IIC APPROVED Canadian Marking: Class I, Zone 1, Ex e IIC

Temperature Range: -60 to 180°C (-76 to 356°F)

Rated Pressure Range:

Up To 50 PSI

Sheath Material: 304/316 Stainless Steel with fast response copper tip

Leadwires:

Two, Three or Four Wire Configurations

Dielectric Strength:

1,500 VAC at 60 Hz with 1 mA Maximum Leakage Current

Insulation Resistance:

1,000 megOhms minimum between element and case at 500 VDC 100 megOhms minimum between elements at 50 VDC (dual RTD sensors only)

Excitation Current:

1 mA Nominal, 5 mA Maximum. At Maximum Excitation Current, Sensor Will Dissapate No More Than 0.01 Watts of Power and Generate a Maximum Voltage of 1.75 Volts.

Sensor Length:

4.0" Minimum

Sensor Diameters:

.188", .215", .236" (6.0 mm), .250"

ordering info

Increas	ed Safety Se	nsors-ATEX/IECEx/FM	Approved Beari	ng RTD, Tip Sensitive	
Model	Cable/Lead Configuration				<pre><fm></fm></pre>
1180	Bearing Sensor with Copper Tip, TFE Leads				
1181	Bearing Sensor with Copper Tip, Jacketed Cable				APPROVED
1182	Bearing Sensor with Copper Tip, Shielded Jacketed Cable				ATTROVED
1190	Bearing Sensor with Copper Tip, TFE Leads, PTFE Sheath Isolator				
1191	Bearing Sensor with Copper Tip, Jacketed Cable, PTFE Sheath Isolator				
1192	Bearing Se	Bearing Sensor with Copper Tip, Shielded Jacketed Cable, PTFE Sheath Isolator			
	Element Co	onfiguration (Single Eler	ments Only)		$\langle \gamma \gamma \rangle$
Model	Element	Nominal Resistance	Accuracy	Temperature Coefficient	
P2A	Platinum	100	0.06%	0.00385	
P2B	Platinum	100	0.12%	0.00385	
P2C	Platinum	100	0.50%	0.00385	
P6A	Platinum	1,000	0.06%	0.00385	
P6B	Platinum	1,000	0.12%	0.00385	
G2B	Platinum	100	0.12%	0.00392	
G2C	Platinum	100	0.50%	0.00392	
N3C	Nickel	120	0.50%	0.00672	
Model	Leadwire C	Configuration	Element		
2S	Two Wire		Single		
3S	Three Wire		Single		
4S	Four Wire		Single		
2D	Two Wire		Dual		
3D	Three Wire		Dual		
4D	Four Wire		Dual		
Model	'L' Sheath	Length			
	Define 'L' Length in Inches. Minimum Length: 4.0 Inches (Example: 12 = 12.0")				
Model	'D' Sheath Diameter				
В	0.188"				
С	0.250"				
D	0.215"				
E	6.0 mm				
Model	'Y' Leadwire/Cable Length				
	Define 'Y' Length in Inches (120 = 120.0")				





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