

Variety of Configurations Fiberglass Laminated Body



Increased Safety Sensors— ATEX/IECEX/FM Approved Stator RTD Wire Wound Sensing Element (Averaging)

- Fiberglass insulated wire wound RTD with TFE/Polyimide lead wires/cable
- Wire wound sensors measure the average of temperature over the entire sensing length of the element
- Used in electric motors and generators for continuous sensing of the stator windings temperature
- Designed for use in hazardous areas where flammable gas may be present
- Rated for Class H (180°C) continuous use
- 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'



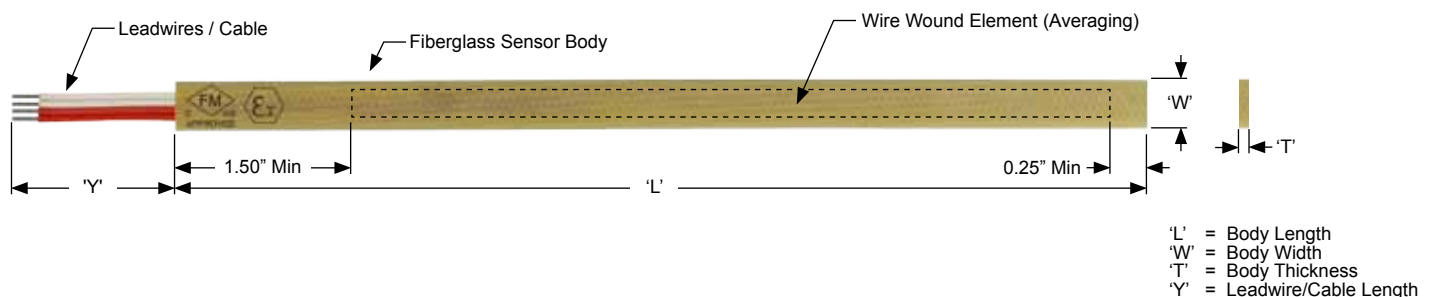
FEATURES

- Rear Exit, Fiberglass Laminated
- Element, Single:
 - » Platinum, Nickel, Copper
- Body Thickness:
 - » 0.078", 0.098", 0.118", 0.138", 0.157"
- Custom Body Width:
 - » Minimum 0.260" for Two and Three Wire Models
 - » Minimum 0.285" for Four Wire Models
- Leadwire/Cable Options

APPLICATIONS

- Motors
- Generators

dimensions



Increased Safety Sensors–ATEX/IECEX/FM Approved Stator RTD Wire Wound Sensing Element (Averaging)

performance specifications

Approvals:



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



Class I, Zone 1, AEx/Ex e IIC MAX 0.03W
US Marking: Class I, Zone 1, AEx/Ex e IIC
Canadian Marking: Class I, Zone 1, Ex e IIC

Temperature Range:

-60 to 180°C (-76 to 356°F) Class H

Body Material:

Nelco N4000-20 Fiberglass

Leadwires:

Two, Three or Four Wire Configurations
TFE or Polyimide Insulated Conductors

Dielectric Strength:

Up to 5,000 VAC (1,500 VAC Min)
–60 Seconds, 20°C– Depending on Sensor Configuration.
Dielectric Rating Applies Over Sensor Body Only.

Cable Pull Strength:

30 Pounds (125 Newtons) Nominal

Excitation Current:

1 mA Nominal, 10 mA Maximum. At Maximum Excitation Current, Sensor Will Dissipate No More Than 0.03 Watts of Power and Generate a Maximum Voltage of 3.25 Volts.

Sensor Length:

6.0" Minimum

Sensor Thickness:

0.078" to 0.157" (2.0 to 4.0mm) Nominal Thickness

Sensor Width:

0.260" (6.6 mm) Minimum Nominal Width (Two or Three Wire Sensor)
0.285" (7.24 mm) Minimum Nominal Width (Four Wire Sensor)

ordering info

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Model	Cable/Lead Configuration	Voltage Rating		
1100	Stator Sensor with Flat Ribbon Cable	5,000 VAC		
1101	Stator Sensor with TFE Insulated Individual Leads	1,500 VAC		
1102	Stator Sensor with Polyimide Insulated Individual Leads	1,500 VAC		
Element Configuration (Single Elements Only)				
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
G2B	Platinum	100	0.12%	0.00392
G2C	Platinum	100	0.50%	0.00392
N3C	Nickel	120	0.50%	0.00672
C1D	Copper	10	0.20%	0.00427
Model	'L' Body Length			
---	Define 'L' Length in 0.1 Inch Increments. Minimum Length: 6.0 Inches (Example: 1200 = 12.00")			
Model	Leadwire Configuration			
2S	Two Wire			
3S	Three Wire			
4S	Four Wire			
Model	'T' Body Thickness			
A	0.078" (2.0 mm)			
B	0.098" (2.5 mm)			
C	0.118" (3.0 mm)			
D	0.138" (3.5 mm)			
E	0.157" (4.0 mm)			
Model	'Y' Leadwire/Cable Length			
---	Define 'Y' Length in Inches (120 = 120.0")			
Model	'W' Body Width			
---	Define 'W' Width in 0.1 Inch Increments. (0285 = 0.285") 0.260" (6.6 mm) Minimum Nominal Width (Two or Three Wire Sensor) / 0.285" (7.24 mm) Minimum Nominal Width (Four Wire Sensor)			



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ordering info

Increased Safety Sensors–ATEX/IECEX/FM Approved Stator RTD Wire Wound Sensing Element (Averaging), Optional Elastomer Filled Cable

Model	Cable/Lead Configuration	Voltage Rating		
1103	Stator Sensor with Twisted Cable	3,200 VAC		
1104	Stator Sensor with Shielded Twisted Cable	3,200 VAC		
1105	Stator Sensor with Twisted Cable	1,500 VAC		
1106	Stator Sensor with Shielded Twisted Cable	1,500 VAC		
Element Configuration (Single Elements Only)				
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
G2B	Platinum	100	0.12%	0.00392
G2C	Platinum	100	0.50%	0.00392
N3C	Nickel	120	0.50%	0.00672
C1D	Copper	10	0.20%	0.00427
Model	'L' Body Length			
---	Define 'L' Length in 0.1 Inch Increments. Minimum Length: 6.0 Inches (Example: 1200 = 12.00")			
Model	Leadwire Configuration			
2S	Two Wire			
3S	Three Wire			
4S	Four Wire			
Model	'T' Body Thickness			
A	0.078" (2.0 mm)			
B	0.098" (2.5 mm)			
C	0.118" (3.0 mm)			
D	0.138" (3.5 mm)			
E	0.157" (4.0 mm)			
Model	'Y' Leadwire/Cable Length			
---	Define 'Y' Length in Inches (120 = 120.0")			
Model	Elastomer Filled Cable Option			
F	Cable is Filled with Elastomer for a Minimum of 2 Feet On Sensor End of Cable (Model 1104 and 1106 Only)			
N	No Elastomer Filled Cable			
Model	'W' Body Width			
---	Define 'W' Width in 0.1 Inch Increments. (0285 = 0.285")			
---	0.260" (6.6 mm) Minimum Nominal Width (Two or Three Wire Sensor) / 0.285" (7.24 mm) Minimum Nominal Width (Four Wire Sensor)			

联系方式



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