



MEAS SIDE EXIT STATOR RTD SENSOR

- ◆ Variety of Configurations
- ◆ Single and Dual Elements
- ◆ Custom Designs Available with:
 - » Specific Dimensions
 - » High Accuracy
 - » Special Cable or Leadwires
 - » Electrically Conductive Coating

The Side Exit Stator RTD Sensor is a rectangular, flat, laminated sensors commonly called “Stator Sticks” because they are inserted between the coils in the stator of a motor. These averaging type sensors are used in electric motors and generators for continuous sensing of the temperature and provide for consistent thermal monitoring without false alarms.

Side exit stator RTD sensors differ from standard rear exit stators in that the lead wire or cable exits from the side of the body. Initially a custom sensor, side exits are becoming a popular replacement for the rear exit due to less stress on the lead wire or cable when routing to the controller.

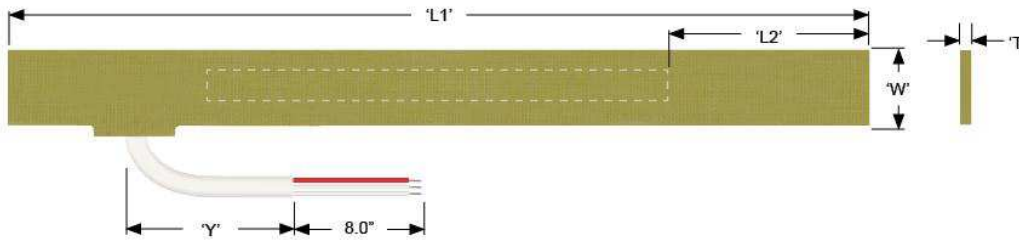
Features

- ◆ Side Exit, Epoxy Glass Laminated
- ◆ Elements, Single and Dual:
 - » Platinum, Copper, Nickel
- ◆ Custom Body Thickness: .078” to .375”
 - » Standard: .078”, .093”, .125”
- ◆ Custom Body Widths: .500” to 2.50”
- ◆ Leadwire/Cable Options

Applications

- ◆ Electric Motors
- ◆ Generators

Dimensions



'L1' = Body Length
'L2' = Sensing Element Position
'W' = Body Width
'T' = Body Thickness
'Y' = Leadwire/Cable Length

Performance Specifications

Dielectric Strength:

Class F: 3,000 volts RMS @ 60 Hz for 1 minute, between leads and external body surface
Class H: 2,000 volts RMS @ 60 Hz for 1 minute, between leads and external body surface

Temperature Limits:

Class F: 155°C (311°F)
Class H: 180°C (356°F)

RTD Leadwires:

Three Wire or Four Wire
Standard: Stranded Copper plated wire with PTFE insulation

Ordering Information

SIDE EXIT STATOR RTD SENSOR				
Model	Classification	Temperature Limit	Material	Dielectric Strength
301F	Class F	155°C	Epoxy Glass	3,000 Volts
301H	Class H	180°C	Epoxy Glass	2,000 Volts
Model	Element	Accuracy	Temperature Coefficient	
P2B	Platinum	100 Ohm ±.12% at 0°C	.00385	
P2C	Platinum	100 Ohm ±.5% at 0°C	.00385	
P2D	Platinum	100 Ohm ±.2% at 0°C	.00385	
G2C	Platinum	100 Ohm ±.5% at 0°C	.00392	
C1D	Copper	10 Ohm ±.2% at 25°C	.00427	
N3C	Nickel	120 Ohm ±.5% at 0°C	.00672	
Model	'L1' Body Length			
----	Define 'L1' Length in Inches Example: 36.00 = 36.00"; 24.50 = 24.50"			
Model	Leadwires, Element Configuration	Color Code		
3S	Three Wire, Single	Red/White/White		
4S	Four Wire, Single	Red/White/White		
3D	Three Wire, Dual	Red/White/White // Blue/Yellow/Yellow		
4D	Four Wire, Dual	Red/Red/White/White // Blue/Blue/Yellow/Yellow		
Model	'L2' Sensing Element Position			
----	Define 'L2' Length in Inches Example: 2.00 = 2.00"; 6.50 = 6.50"			
Model	'T' Body Thickness	Standard Leadwires		
A	.078"	22 AWG Leadwires with Fiberglass Sleeving		
B	.093"	22 AWG Leadwires with Fiberglass Sleeving		
C	.093"	22 AWG Cable		
D	.125"	22 AWG Leadwires with Fiberglass Sleeving		
E	.125"	22 AWG Cable		
Model	'Y' Leadwire/Cable Options			
----	Define 'Y' Length in Whole Inches (120 = 120.0"; 036 = 36.0")			
Model	'W' Body Width			
----	Define 'W' Width in Inches Example: .650 = .650"; 1.50 = 1.50"			
Model	Leadwire Termination			
1	Stripped and Tinned			
2	1.0" Staggered with Butt Splice			

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