

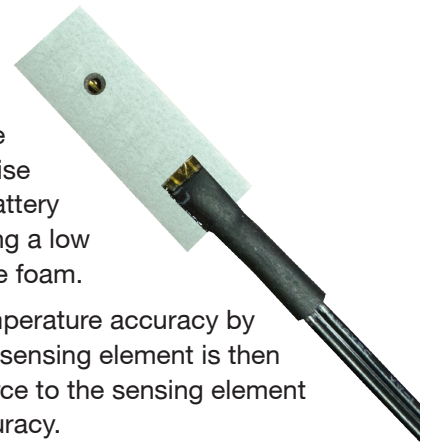
T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E
AN AMPHENOL COMPANY

Surface Mount Foam Sensor (SMF)

Thermometrics Surface Mount Foam Sensor (SMF): a highly adaptable sensor designed for direct mounting on almost any surface, offering precise temperature monitoring. Specifically designed for applications such as battery management and HVAC control, the SMF boasts a unique design featuring a low thermal mass sense element coupled with adhesive backed compressible foam.

This innovative design ensures rapid response times and exceptional temperature accuracy by exposing the sensing element to the sensing surface. The backside of the sensing element is then covered with compressible foam that not only adds consistent normal force to the sensing element but also thermally isolates the ambient influences, further promoting accuracy.

Ideal applications are where the SMF can be placed between a flat sense surface and a backing plate, such as between battery cells and cover or on between a boiler and insulation.



Features

- Accurate and Robust
- Thermally Isolated
- Fast Response Time
- Robust design in a variety of applications
- Easily customized upon request

Applications

- Battery Modules
- Hot / Processing Water Tanks
- Server Racks
- Consumer Electronics
- Fuel Cell

Amphenol Sensors

Surface Mount Foam Sensor (SMF) Specifications

Operating Temperature Range:
-40°C to 105°C

Beta (25/85)°C:
3435K ± 1.0%

Storage Temperature Range:
-20°C to 45°C

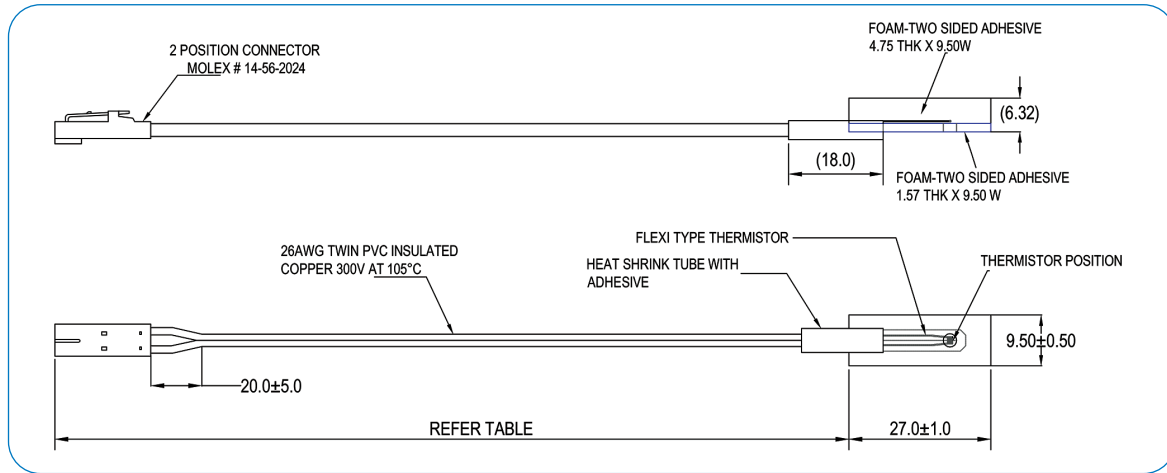
Temperature Accuracy:
R @ 25°C ± 0.3°C

R @ 25°C:
10,000Ω ± 2.0%

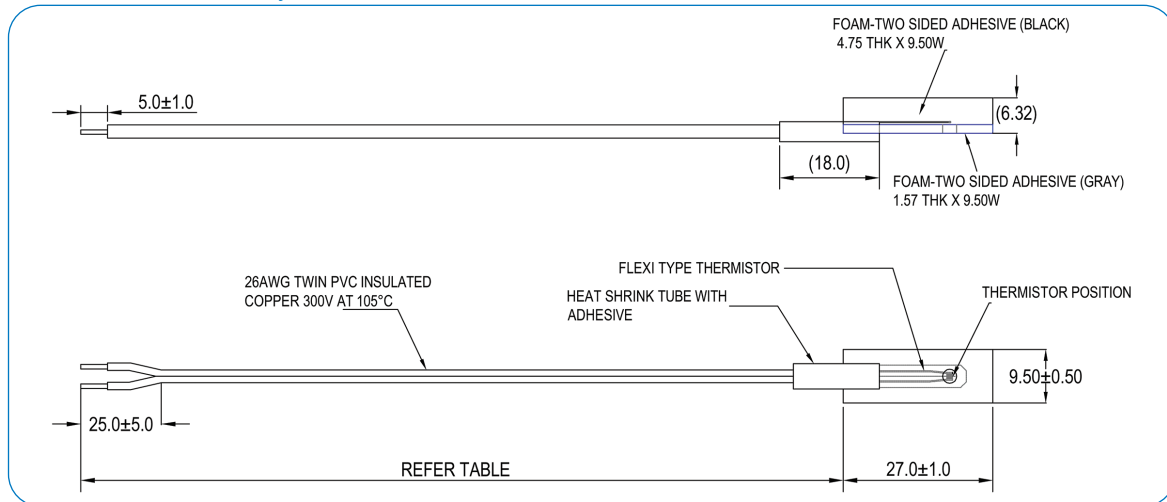
Connector:
Molex: 14-56-8022

| Available Configurations | | |
|--------------------------|-------------|-----------------|
| Part No. | Wire Length | Termination |
| JNI103C4R2L151 | 150 ±5.0 | Molex Connector |
| JNI103C4R2L251 | 250 ±5.0 | Molex Connector |
| JNI103C4R2L151S | 150 ±5.0 | Stripped Ends |
| JNI103C4R2L251S | 250 ±5.0 | Stripped Ends |

NTC Thermistor Assembly With Connector



NTC Thermistor Assembly Without Connector



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www.amphenol-sensors.com

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