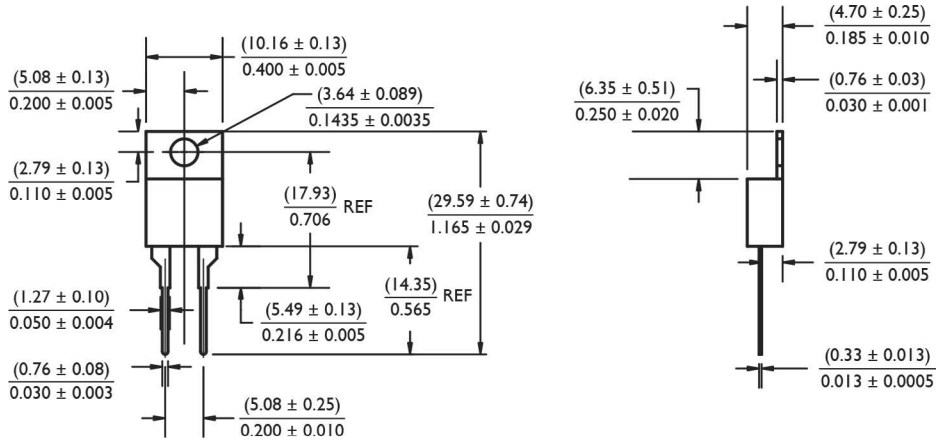
SPECIFICATIONS

<table>
<tr><td>Contact Resistance</td><td>50 milliohms max (before and after rated life)</td></tr>
<tr><td>Contact Ratings</td><td>
<table>
<tr><td>VDE</td><td>Cycles
20,000
100,000</td><td>Voltage
48 VDC
5 VDC</td><td>Amps
0.5A (Resistive)
0.01A (Resistive)</td></tr>
<tr><td>UL</td><td>30,000
30,000
100,000
6,000</td><td>48 VDC
120 VAC
5 VDC
24 VAC</td><td>1A (Resistive)
1A (Resistive)
0.02A (Resistive)
1A (pilot duty)</td></tr>
</table>
</td></tr>
<tr><td>Contact Operations</td><td>Either close on rise (make) or open on rise (break)</td></tr>
<tr><td>Operating Temperature</td><td>40°C to 130°C (104°F to 266°F)</td></tr>
<tr><td>Temperature Tolerance</td><td>Standard of ±5°C (±9°F) with nominal operating temperature settings in 5°C increments</td></tr>
<tr><td>Short Term / Long Term Exposure Limit</td><td>Short = 260°C (500°F), 10 second duration | Long = -55°C to 160°C (-67°F to 320°F)</td></tr>
<tr><td>Dielectric Strength</td><td>Nickel-plated copper bracket has 1480 VAC 60Hz, 1 second duration terminals to case. Plastic bracket has 2000 VAC 60Hz, 1 second duration terminals to case.</td></tr>
<tr><td>Insulation Resistance</td><td>100 Mohms at 500 VDC</td></tr>
<tr><td>Contact Bounce</td><td>3 milliseconds max (make)</td></tr>
<tr><td>Vibration</td><td>Per Mil-Std-202, method 204D, test condition D, 10 to 2,000 Hz</td></tr>
<tr><td>Shock</td><td>Per Mil-Std-202, method 213, test condition C, 100 G's for 6 millisecond duration, ½ sine wave</td></tr>
<tr><td>Seal</td><td>High temperature epoxy sealed for wave soldering and cleaning, moisture proof per Sensata specification S-722 (unit will not leak while submerged in 9" of water for a minimum of two minutes)</td></tr>
<tr><td>Base Material</td><td>PPS (Polyphenylene Sulfide), 94 VO rated</td></tr>
<tr><td>Terminal Material</td><td>65% Copper, 18% Nickel</td></tr>
<tr><td>Contact Material</td><td>Gold-plated or overlay, silver crossbar</td></tr>
<tr><td>Mounting Bracket Material</td><td>Nickel-plated copper bracket has 1480 VAC 60Hz, 1 second duration terminals to case. Plastic bracket has 2000 VAC 60Hz, 1 second duration terminals to case.</td></tr>
<tr><td>Chemical Resistance</td><td>Unit is resistance to water, salt, alcohol, ammonia, trichlorethane and most other organic solvents</td></tr>
<tr><td>Solderability</td><td>Terminal material is selectively striped with lead-free solder for improved solderability</td></tr>
<tr><td>Soldering Heat Resistance</td><td>Per Mil-Std-202G, method 210F, test condition C & K, test condition K validated at 260°C for 25 seconds</td></tr>
<tr><td>Weight</td><td>Approximately 0.5 grams</td></tr>
<tr><td>Agency Approvals</td><td>cЯUus recognized E36687
VDE approval 40028976
RoHS Compliant per EU Directive 2002/95/EC</td></tr>
</table>

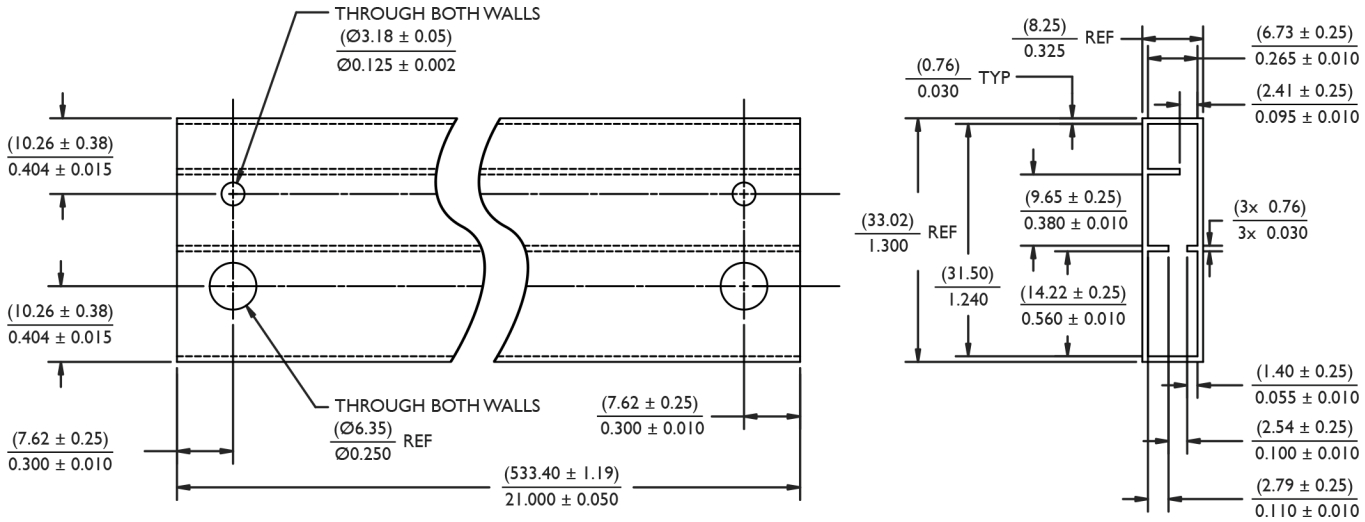
DIMENSIONS

Dimensions in inches [mm]



STANDARD PACKAGING

All samples and production orders will be shipped in plastic, industry standard shipping tubes.



STANDARD TEMPERATURE CALIBRATION TABLE

Each thermostat part number consists of functional "building blocks" to enable the user to specify the desired characteristics. Select the proper code in each category, then transfer it to the box indicated. Unless a special requirement is indicated, the part number will be complete when the proper temperature is selected. If you have a special requirement, please call Sensata for a factory assigned number to complete the part number.

Example 1:

A 67F090 thermostat will close (make contact) on a rising temperature from 85°C to 95°C and will reset open (break contact) on a falling temperature within a window of no greater than 6°C lower than the actual close temperature and no less than 60°C ambient temperature.

Example 2:

A 67L060P thermostat has a plastic mounting bracket with 2000 VAC dielectric strength and VDE approval.The thermostat will open (break contact) on a rising temperature from 55°C to 65°C and will reset close (make contact) on a falling temperature within a window of no greater than 4°C lower than the actual open temperature and no less than 40°C ambient temperature.

The mounting bracket designation and the 4 digit manufacturing dash number are used for ordering special features and may not appear as part of the marking on the thermostat.

Temperature set point calibration is checked at Sensata Technologies with precision test equipment and proven methods. Because customer checking methods may differ, a typical variance allowed for correlation is ±1°C.

OPERATE (±5°C)	MIN DIFFERENTIAL (°C)	MIN RESET (°C)
40	4	20
45	4	20
50	4	30
55	4	30
60	4	40
65	4	40
70	4	50
75	4	50
80	6	55
85	6	55
90	6	60
95	6	60
100	6	70
105	6	70
110	6	80
115	6	80
120	9	85
125	9	85
130	9	90

ORDERING OPTIONS

Example : 67L090P-5588

Basic Product Series

67

Contact Operation

F = Fan (close on rise)
L = Limit (open on rise)

Operating Temperature

in °C, 3 digits (from above table, put "0" in front of 2 digit temps)

Mounting Bracket Designation

Blank or no entry for a standard nickel-plated copper bracket
P = Plastic mounting bracket (VDE approved)

Factory Assigned Number

Nondescript, 4 digit dash number assigned for a customer's special requirements. The dash and factory assigned number is not required for ordering a standard product

AGENCY APPROVALS & CERTIFICATIONS

cЯUus recognized
E36687

VDE approval
40028976

RoHS Compliant
per EU Directive
2002/95/EC

WARNINGS

RISK OF MATERIAL DAMAGE AND HOT ENCLOSURE

- The product's side panels may be hot, allow the product to cool before touching
- Follow proper mounting instructions including torque values
- Do not allow liquids or foreign objects to enter this product

Failure to follow these instructions can result in serious injury, or equipment damage.

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power before installing or working with this equipment
- Verify all connections and replace all covers before turning on power

Failure to follow these instructions can result in death or serious injury.

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