



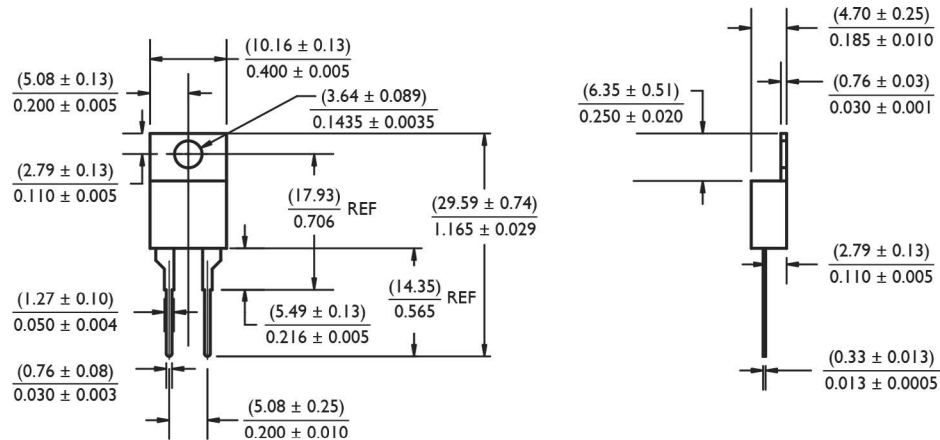
SPECIFICATIONS

Contact Resistance	50 milliohms max (before and after rated life)			
Contact Ratings	VDE	Cycles 20,000	Voltage 48 VDC	Amps 0.5A (Resistive)
		100,000	5 VDC	0.01A (Resistive)
	UL	30,000	48 VDC	1A (Resistive)
		30,000	120 VAC	1A (Resistive)
100,000		5 VDC	0.02A (Resistive)	
		6,000	24 VAC	1A (pilot duty)
Contact Operations	Either close on rise (make) or open on rise (break)			
Operating Temperature	40°C to 130°C (104°F to 266°F)			
Temperature Tolerance	Standard of ±5°C (±9°F) with nominal operating temperature settings in 5°C increments			
Short Term / Long Term Exposure Limit	Short = 260°C (500°F), 10 second duration		Long = -55°C to 160°C (-67°F to 320°F)	
Dielectric Strength	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.			
Insulation Resistance	100 Mohms at 500 VDC			
Contact Bounce	3 milliseconds max (make)			
Vibration	Per Mil-Std-202, method 204D, test condition D, 10 to 2,000 Hz			
Shock	Per Mil-Std-202, method 213, test condition C, 100 G's for 6 millisecond duration, ½ sine wave			
Seal	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)			
Base Material	PPS (Polyphenylene Sulfide), 94 VO rated			
Terminal Material	65% Copper, 18% Nickel			
Contact Material	Gold-plated or overlay, silver crossbar			
Mounting Bracket Material	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.			
Chemical Resistance	Unit is resistance to water, salt, alcohol, ammonia, trichlorethane and most other organic solvents			
Solderability	Terminal material is selectively striped with lead-free solder for improved solderability			
Soldering Heat Resistance	Per Mil-Std-202G, method 210F, test condition C & K, test condition K validated at 260°C for 25 seconds			
Weight	Approximately 0.5 grams			
Agency Approvals	cRUus recognized E36687 VDE approval 40028976 RoHS Compliant per EU Directive 2002/95/EC			



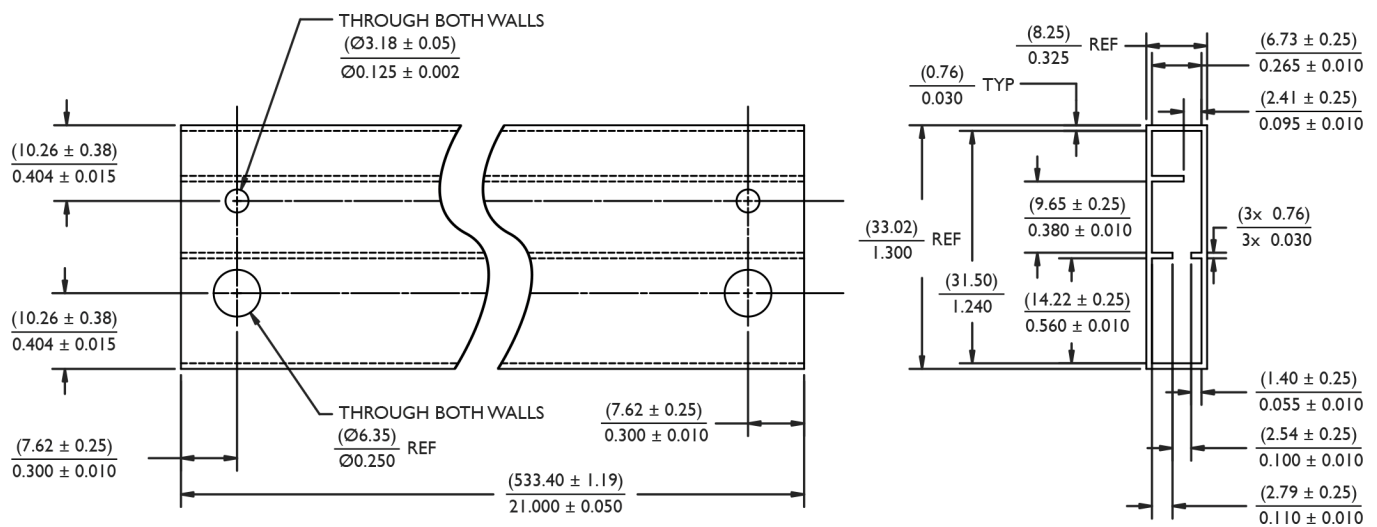
DIMENSIONS

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 $\pm 1^\circ\text{C}$.

OPERATE ($\pm 5^\circ\text{C}$)	MIN DIFFERENTIAL ($^\circ\text{C}$)	MIN RESET ($^\circ\text{C}$)
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	<u>67</u>	Contact Operation	<u>L</u>	Operating Temperature	<u>0</u> <u>9</u> <u>0</u>	Mounting Bracket Designation	<u>P</u>	Factory Assigned Number	<u>-</u> <u>5</u> <u>5</u> <u>8</u> <u>8</u>
67		F = Fan (close on rise) L = Limit (open on rise)		in $^\circ\text{C}$, 3 digits (from above table, put “0” in front of 2 digit temps)		Blank or no entry for a standard nickel-plated copper bracket P = Plastic mounting bracket (VDE approved)		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



cRUUS 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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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

Americas

+1 (888) 438 2214

sensors@sensata.com

Europe, Middle East & Africa

+31 (74) 357 8156 (Klixon+Airpax)

temperature-info.eu@sensata.com

com

Asia Pacific

sales.isasia@list.sensata.com

China +86 (21) 2306 1500

Japan +81 (45) 277 7117

Korea +82 (31) 601 2004

India +91 (80) 67920890

Rest of Asia +886 (2) 27602006

ext 2808