

SPECIFICATIONS

Contact Resistance	50 milliohms max (before and after rated life)		
Contact Ratings	Cycles	Voltage	Amps (resistive)
	25,000	48 VDC	1.0
	30,000	120 VAC	1.0
	100,000	5 VDC	0.001 (gold)
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 $\pm 5^{\circ}\text{C}$ ($\pm 9^{\circ}\text{F}$) 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	1480 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		
Chemical Resistance	Unit is resistance to water, salt, alcohol, ammonia, trichlorethane and most other organic solvents		
Soldering Heat Resistance	Per Mil-Std-202F, method 210A, test condition E		
Weight	Approximately 0.45 grams		
Mechanical Life	1,000,000 operations		
Agency Approvals	cRUus recognized E36687 VDE approval 0631/12.83 RoHS Compliant per EU Directive 2002/95/EC		

STANDARD TEMPERATURE CALIBRATION TABLE

Each thermostat part number consists of functional “building blocks” to enable the user to specify clearly and precisely the desired characteristics in each category. 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 :

A 66F095 thermostat will close (make contact) on a rising temperature from 90°C to 100°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.

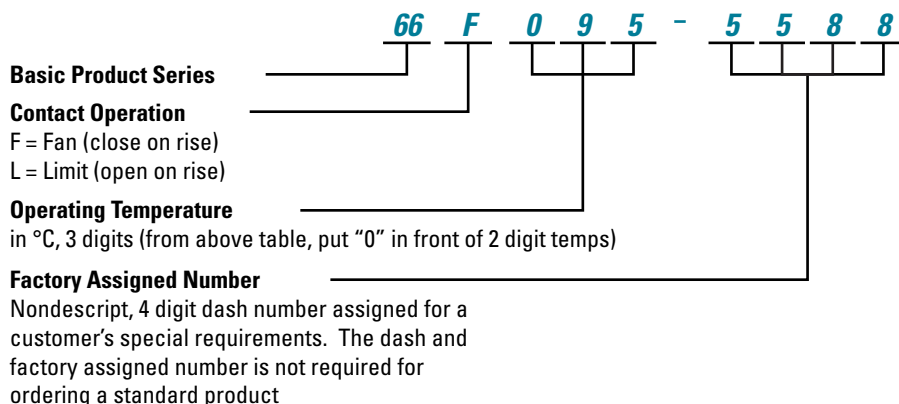
Special requirements require a 4 digit manufacturing dash number for ordering special features, 4 digit marking may not appear as part of the marking on the thermostat.

Special requirements may include VDE, $\pm 3.0^{\circ}\text{C}$ ($\pm 5.4^{\circ}\text{F}$) operating temperature tolerance, or surface mount (gullwing, SMT).

Temperature set point calibration is checked at Sensata Technologies with precision test equipment traceable to the US National Institute of Standards and Technology and Proven Methods. Because customer checking methods may differ, a typical variance allowed for correlation is $\pm 1.1^{\circ}\text{C}$ ($\pm 2.0^{\circ}\text{F}$).

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	85
120	9	90
125	9	90
130	9	90

DECISION TABLES



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