



## | 4391 SERIES

-65°F to 450°F Hermetically Sealed

### Introduction

This Klixon® snap-acting disc type control is designed to provide crisp, positive switching action. The 4391 is the most versatile of the Klixon® precision thermostats with its available SPST or DPDT switching, automatic or manual reset, and overmold options.



### Features

- High current capacity
- Snap-action switching
- Normally open or closed
- Automatic or manual reset
- Hermetically sealed and back-filled with nitrogen
- SPST or SPDT
- Capacity optional overmold



### PERFORMANCE CHARACTERISTICS

<b>Dielectric Strength</b>	1250 VAC, rms, 60 cycles for 1 minute
<b>Vibration Resistance</b>	Standard Construction : 5-500 Hz, 3G High Vibration Construction : 5-500 Hz, 5G
<b>Hermeticity</b>	1 X 10 <sup>-5</sup> atm cc/second maximum
<b>Weight</b>	Without overmold : 21 grams (average) With overmold : 56 grams (average)

### Contact Ratings

30 VAC/DC	125 VAC	250 VAC	Life Cycles
Amperes			
10	4	2	100,000
11	6	3	50,000
12	8	4	25,000
13	10	5	10,000
14	12	6	5,000

## Ambient Temperature Range

Non-Overmold: -65°F to 450°F (-53.9°C to +232.2°C)  
 Silicone Overmold: -60°F to 400°F (-51.1°C to +204.4°C)

## Operating Temperature Range

Non-Overmold: 0°F to 450°F (-17.8°C to +232.2°C)  
 Silicone Overmold: 0°F to 400°F (-17.8°C to +204.4°C)

### Standard Temperature Settings

Operating Temperature	SPST (Single Pole / Single Throw), Standard Vibration				SPDT (Single Pole / Double Throw), High Vibration			
	Differential		Tolerance		Differential		Tolerance	
	°C	°F	± °C	± °F	°C	°F	± °C	± °F
-18 to 93°C (0 to 200°F)	8	15	3	5	14	25	4.4	8
-99 to 149°C (210 to 300°F)	14	25	4	7	17	30	6	10
-160 to 177°C (325 to 350°F)	25	45	7	12	25	45	7	12
-191 to 232°C * (375 to 450°F) auto reset only	33	60	8	15	14	60	8	15

Standard temperature set points are at every 5°F degrees (for example, 320°F, 325°F, 330°F).  
 Consult Sensata Technologies if a custom operating temperature range is required.

*\* Available in automatic reset only*

# CONFIGURATIONS

Our most common configurations and options are depicted below. Other styles are also available.

<p><b>4391-8 Style</b> SPST automatic reset without overmold</p>	<p><b>4391-6 Style</b> SPDT automatic reset without overmold</p>												
<p><b>Automatic reset with overmold (SPST shown)</b></p> <table border="1"> <thead> <tr> <th>Overmold Material</th> <th>SPST</th> <th>SPDT</th> </tr> </thead> <tbody> <tr> <td>Silicone</td> <td>4391S7</td> <td>4391S5</td> </tr> </tbody> </table>	Overmold Material	SPST	SPDT	Silicone	4391S7	4391S5	<p><b>Manual reset with overmold (SPDT shown)</b></p> <p>All dimensions same as above unless otherwise specified</p> <table border="1"> <thead> <tr> <th>Overmold Material</th> <th>SPST</th> <th>SPDT</th> </tr> </thead> <tbody> <tr> <td>Silicone</td> <td>4391S14</td> <td>4391S13</td> </tr> </tbody> </table>	Overmold Material	SPST	SPDT	Silicone	4391S14	4391S13
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# TYPICAL MOUNTINGS

<p><b>CHOICE OF TWO HOLE SIZES</b></p> <p>MTG. PLATE 9510</p>	<p><b>TWO 5/32 HOLES</b></p> <p>MTG. PLATE 9755-1</p>	<p><b>AVAILABLE ON UNITS WITHOUT OVERMOLD ONLY</b></p> <p>MTG. PLATE 7484-1</p>
<p>Mounting brackets which are readily available are shown below. Variation from these mountings can be tooled at extra cost. Please advise us if a bracket is required. Dimensions in inches.</p>		

**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 will result in death or serious injury.**

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