



## WORLD CLASS PERFORMANCE

The 1NT Series of High Temperature Limit Thermostats have been specifically designed to be applied as an “airstream” mounted safety switch for gas and electric furnaces. Based on Sensata’s patented “Klixon” snap action disc technology these robust devices are available in several different mounting styles and thermal configurations.

Sensata Technologies has been a leading global supplier of pressure sensors & switches for over 50 years.

## HIGH TEMPERATURE LIMIT THERMOSTATS

### 1NT Series “Stat-on-Stilts”™ Extended Airstream Mount for Gas and Electric Furnaces

Designed as a safety switch for gas and electric furnaces the Sensata “Stat-on-Stilts”™ may be used anywhere a temperature switch must be mounted remotely from electrical terminations. The most common application is as the primary temperature limit in gas furnaces and unit heaters.

“Stat-on-Stilts”™ thermostats from Sensata Technologies are custom-built devices designed to meet your specific application requirements. Their patented, tamperproof Klixon® snap-acting bimetal disc provides reliable, repeatable switch actuation for electrical loads ranging from dry circuits to 10A @ 240 Vac.

The unique welded, single piece terminal construction insures reliable, low resistance electrical connections. Mechanical joints which may loosen and cause poor electrical connections are eliminated.

The core of each “Stat-on-Stilts”™ product is the proven 1NT thermostat. Recognized by all major worldwide electrical approval agencies; hundreds of millions are used daily in a wide variety of appliance, automotive and specialty applications. Manufactured since 1981, the 1NT thermostat is produced at ISO 9000 certified manufacturing sites in China and Mexico.

While most “Stat-on-Stilts”™ are built to automatically reset 30°F (17°C) below their opening temperature, custom setpoints and switch configurations are available, including manual reset and single operation devices.

### Features & Benefits

- ISO Certified quality system
- UL/CSA approved
- Low-cost, reliable operation - built on proven 1NT thermostat
- High temperature capability - operating temperatures to 350°F (117°C)
- Multiple mounting configurations:
  - 3” or 7” extension
  - Standard molded housing assures exceptional dimensional stability
  - 1/4” and 3/16” QC terminals available
  - Stamped phenolic construction allows low-profile mounting
- Welded 1 piece terminal eliminates loose rivet joints
- Enclosed or exposed discs available

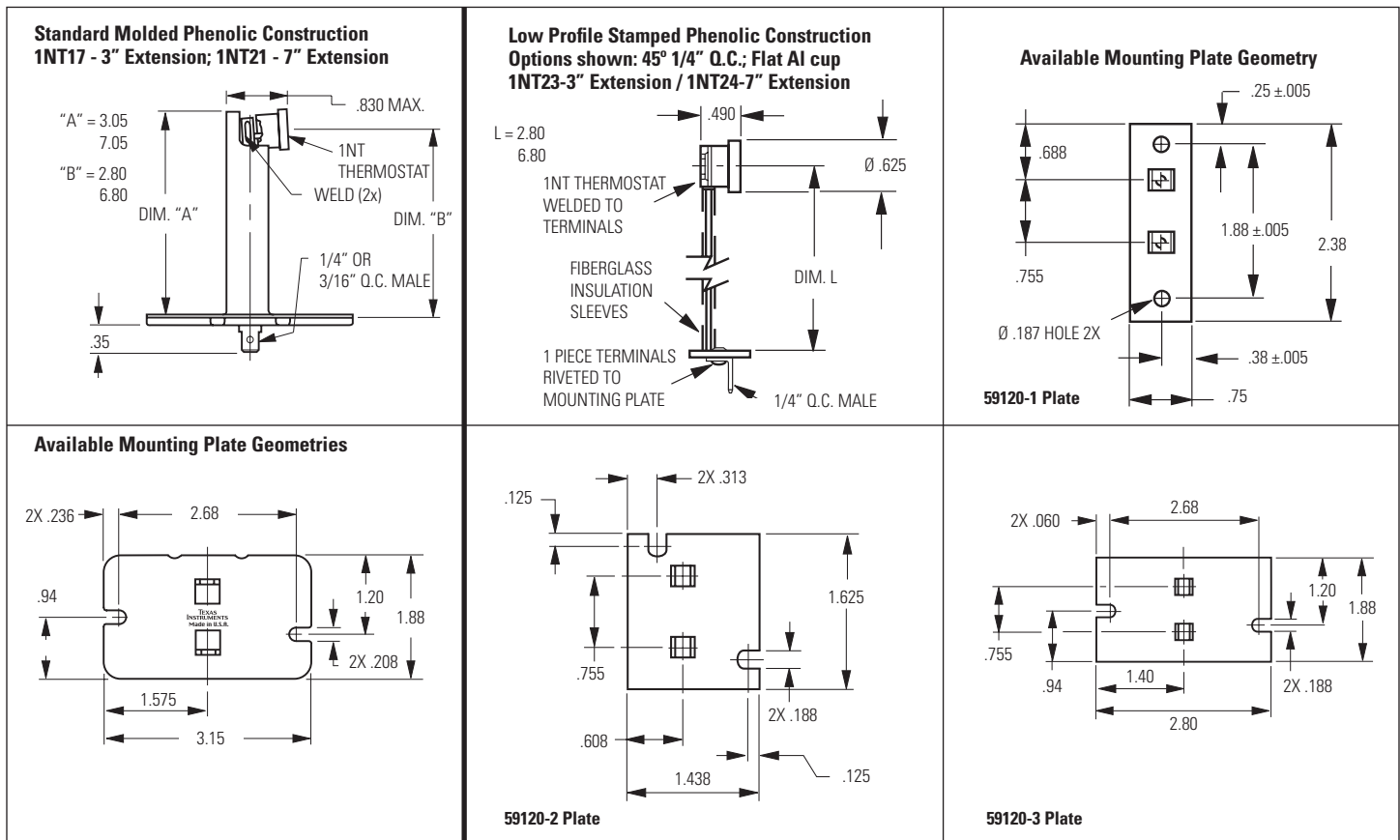
### Agency Approvals

	File No.	Category
UL	E9977	XAPX8
CSA	LR21794	482302



Application shown:  
Residential Gas furnace

## Typical Physical Characteristics



## Standard Temperatures, Tolerances and Differential

*"Stat-on-Stilts"*

Nominal Top Temperature °F	Standard Tolerances	
	Open °F	Close °F
100 - 195	5.5	9
200 - 245	6.5	10
250 - 300	7.5	10
305 - 350	9	13

### Operating Temperatures:

100° to 350°F (38° to 177°C)

Standard setpoints available at 5°F increments

### Standard Differential:

30°F (16.7°C)

### Minimum Differential:

20°F (11°C)

### Notes:

**1NT17** and **1NT21** are available with 1/4" - .032" thk. or 3/16" - .020" thk. male quick connect terminals and fiberglass insulating mounting gaskets.

**1NT23** and **1NT24** are available with 1/4" - .032" thk. male quick connect terminals and fiberglass insulation sleeves in various colors.

**59120-2** and **-3** plate styles are available with fiberglass insulating mounting gaskets.

## Sample Order Placement

To enable Sensata to serve you in a quicker, more efficient manner, please be prepared to provide the following information when requesting samples:

1. Detailed application description
2. Estimated yearly usage
3. Opening and closing temperatures
4. Max. temperature tolerances allowable
5. Switch type
6. Mounting style desired
7. Terminal orientation and material
8. Electrical load

Other conditions which are likely to affect the 1NT operation should also be described. These include:

1. Maximum temperature exposure
2. Location with respect to heat source
3. Temperature transfer medium (air, metal surface, etc.)
4. Possible contamination sources (lint, chemical fumes, etc.)

When ordering thermocouple samples, specify whether J, K, or T type and the lead length desired.

Standard wire size is 30 Ga.



The World Depends on Sensors and Controls

## Sensata Technologies

529 Pleasant Street, MS B19

Attleboro, MA 02703-2964

Phone 1-888-438-2214

Fax: 508-236-2349

email: [sensors@sensata.com](mailto:sensors@sensata.com)

[www.sensata.com](http://www.sensata.com)

**Important Notice:** Sensata Technologies (Sensata) reserves the right to make changes to or discontinue any product or service identified in this publication without notice. Sensata advises its customers to obtain the latest version of the relevant information to verify, before placing any orders, that the information being relied upon is current. Sensata assumes no responsibility for infringement of patents or rights of others based on Sensata applications assistance or product specifications since Sensata does not possess full access concerning the use or application of customers' products. Sensata also assumes no responsibility for customers' product designs.