

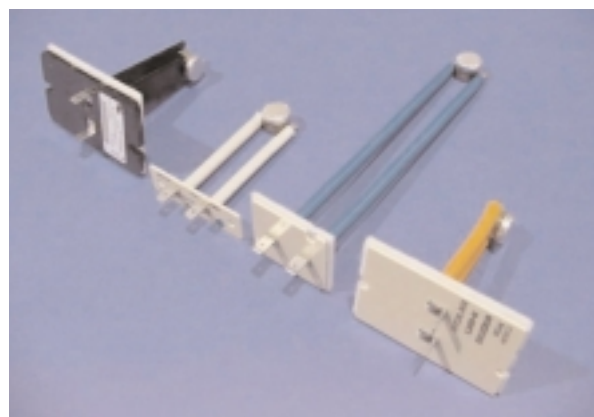
Klixon

1NT SERIES

Fixed Temperature Thermostats

“Stat-on-stilts”™

Extended Airstream Mount



- ISO9001 Certified quality system
- UL / CSA approved
- 100% function tested
- low-cost reliable operation, built on proven 1NT thermostat
- High temperature capability: operating temperatures to 350°F (177°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

Features

“Stat-on-stilts”™ from Texas Instruments are custom-built thermostats 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, and electrical connections. Rivet joints which may loosen and lose electrical continuity are eliminated.

The core of each “Stat-on-stilts”™ is the proven 1NT thermostat. Recognized by all major worldwide 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/QS 14000 certified manufacturing sites.

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.

*Applications shown:
Residential gas furnace*

Applications

Designed for gas and electric furnaces, TI “stat-on-stilts” may be used anywhere a temperature switch must be remote from electrical terminations. The most common application is as the primary temperature limit in gas furnaces and unit heaters.

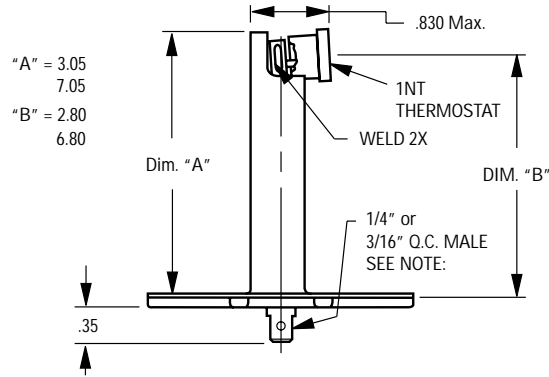
Agency Approvals

	File No.	Category
UL CSA	E9977 LR21794	XAPX8 482302

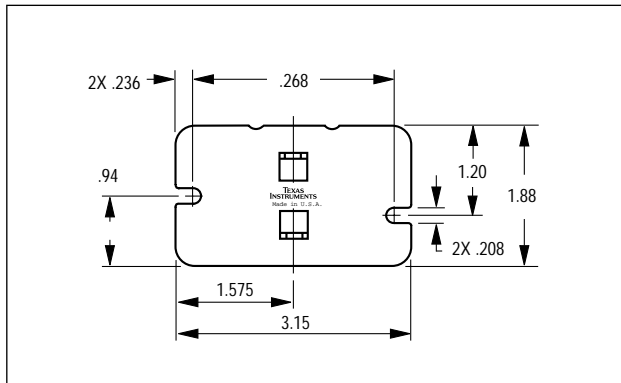


Typical Physical Characteristics

Molded Phenolic Mast Construction 1NT17 - 3" Extension / 1NT21 - 7" Extension



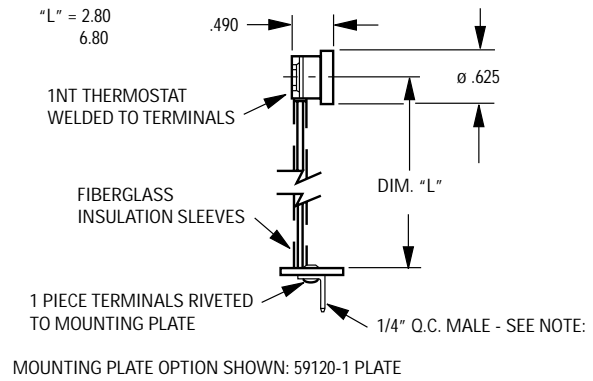
Available Mounting Plate Geometry



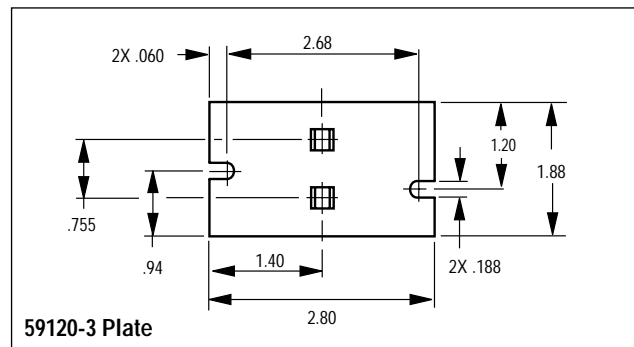
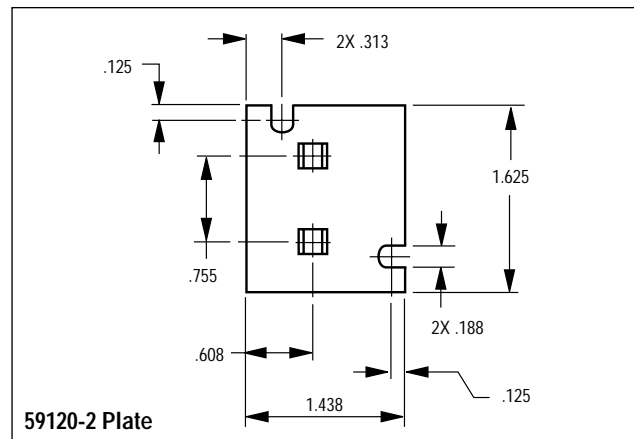
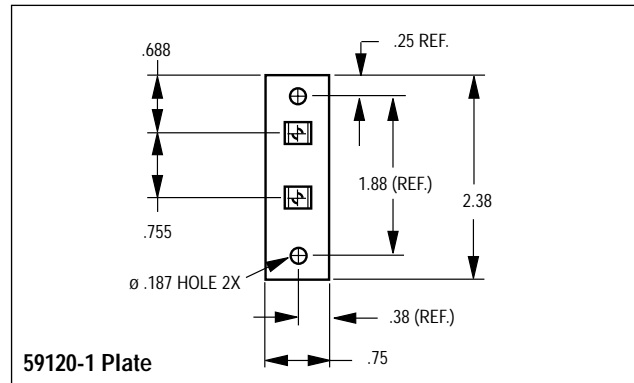
Notes:

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

Low Profile Stamped Construction 1NT23 - 3" Extension / 1NT24 - 7" Extension



Available Mounting Plate Geometries



Notes:

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.

Standard Temperatures, Tolerances and Differential

Nominal Open 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)



Sample Order Placement

To enable Texas Instruments 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. Maximum 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 J, K, or T type and the lead length desired.
Standard wire size is 30 Ga..

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