

# THL-L1S Ambient Sensing Thermostat

The THL-L1S is an ambient sensing thermostat for controlling heat trace systems in ordinary and corrosive environments. It is ideal for controlling individual heat trace circuits or switching a contactor coil, energizing entire systems.

**Enclosure**

Nema-4X  
Die Cast Aluminum with  
Polyurethane Coating

**Switch**

SPDT, 22 Amps @  
120/240/480 VAC  
1,000,000 cycles

**Adjustable Range**

15 to 140°F (-9 to 60°C)

**Accuracy**

+/- 3°F (1.7°C)

**Bulb Temperature Limits**

-40 to 160°F (-40 to 71°C)

**Factory Preset**

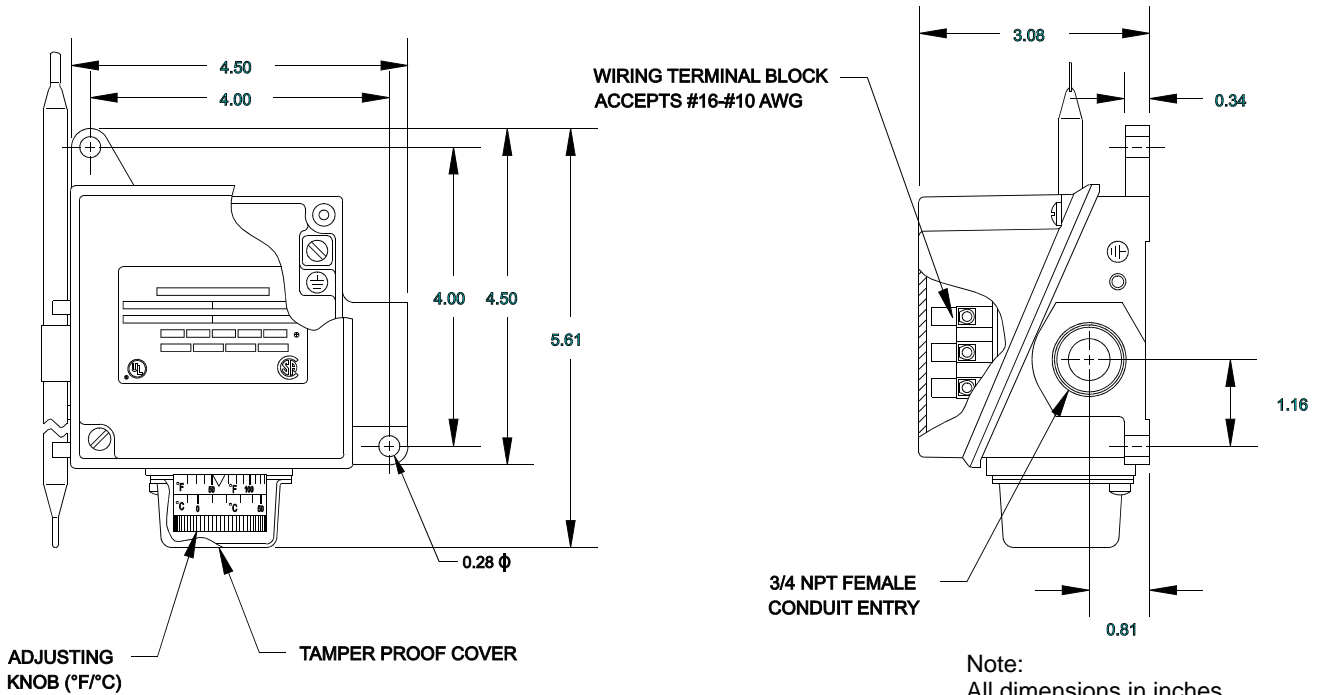
40°F (4.4°C)

**Capillary**

316 Stainless Steel

**Weight**

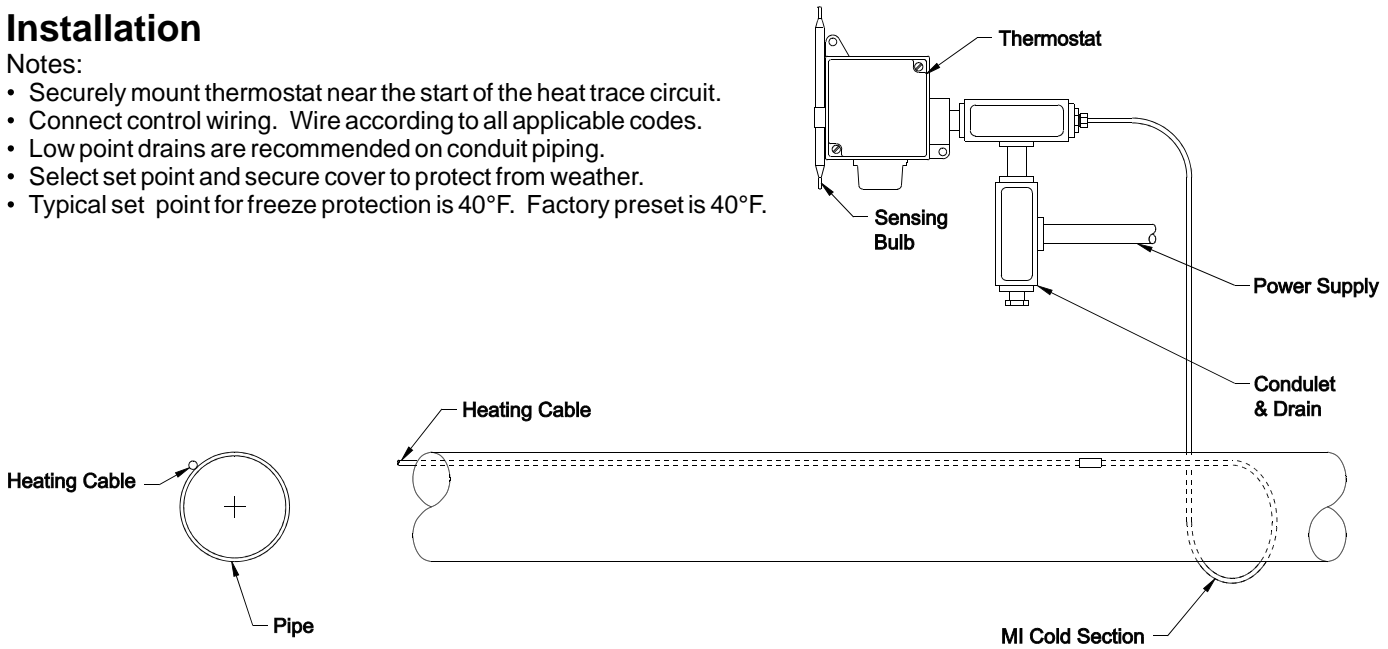
1.9 lbs



## Installation

### Notes:

- Securely mount thermostat near the start of the heat trace circuit.
- Connect control wiring. Wire according to all applicable codes.
- Low point drains are recommended on conduit piping.
- Select set point and secure cover to protect from weather.
- Typical set point for freeze protection is 40°F. Factory preset is 40°F.



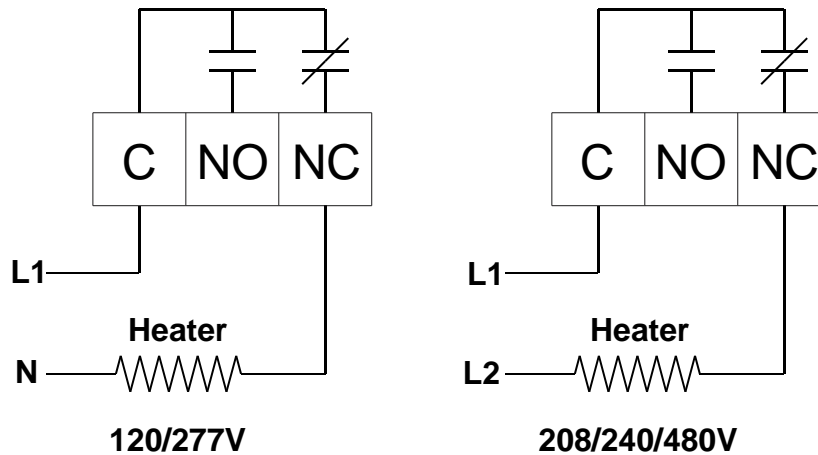
## Annual Maintenance

Spray a coat of lubricant and rust preventative such as CRC Stor & Lube on electrical connections and dial stem. Trasor part number: ASK-10165.

## Wiring Diagram

The normally closed contacts are closed when bulb temperature is below set point.

Contacts Rated:  
22 Amps @ 120/240/480 VAC



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