

## 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

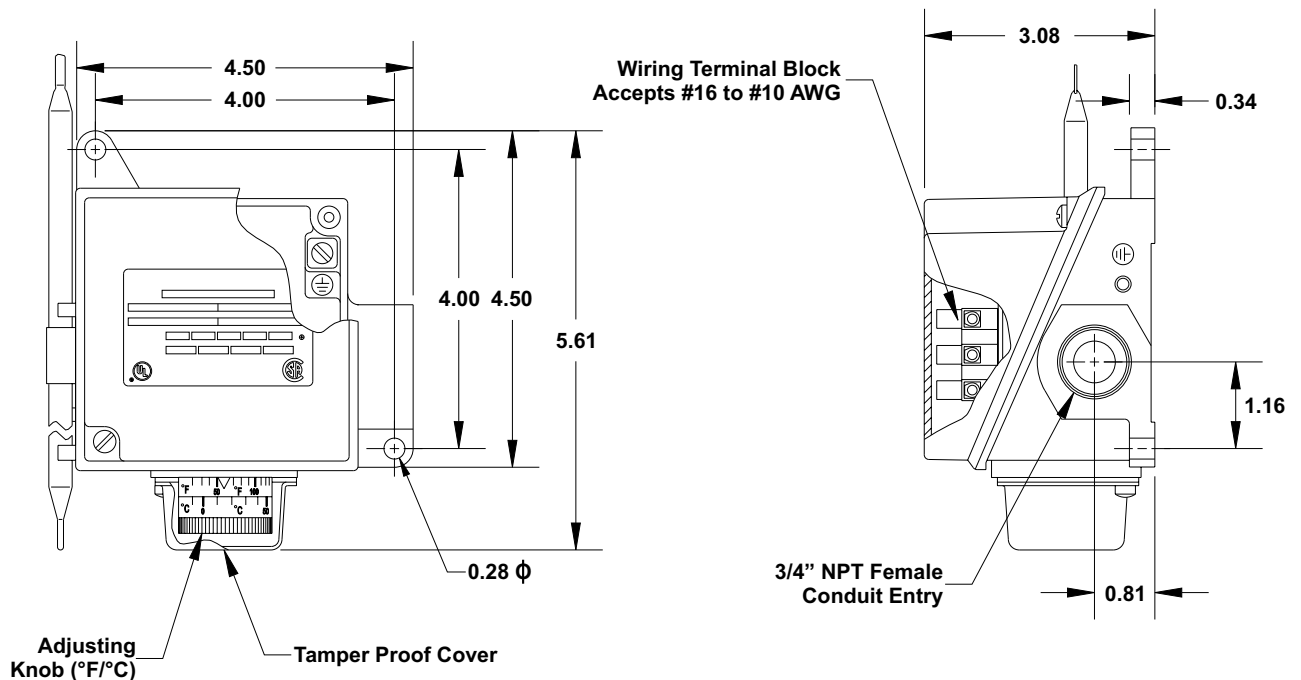
40 °F (4.4 °C)

### Capillary

316 Stainless Steel

### Weight

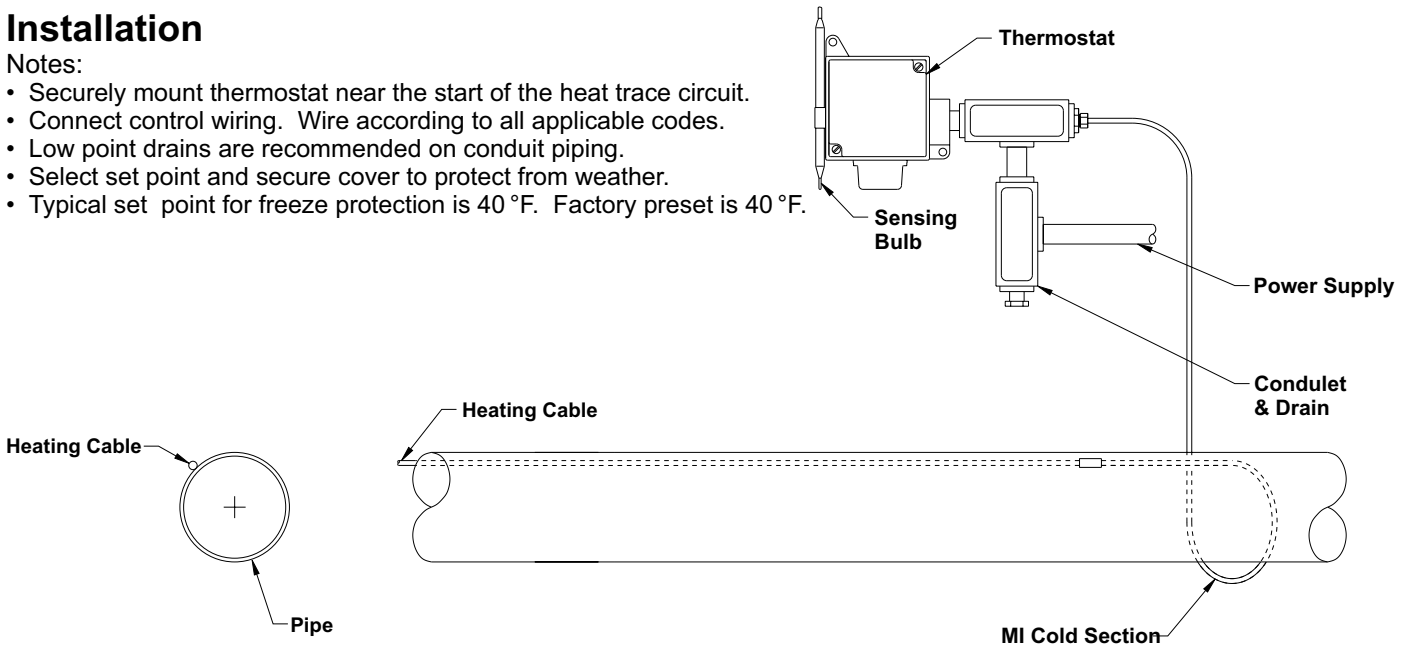
1.9 lb



## 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.



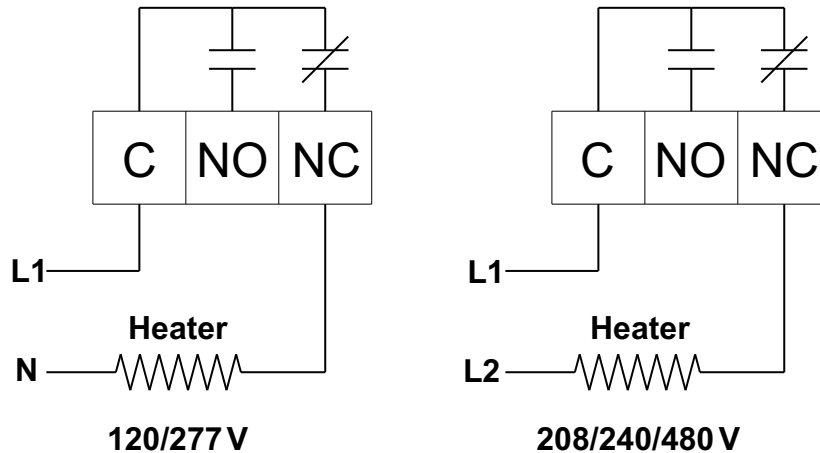
## Annual Maintenance

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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