

## OTS-F1 THERMOSTAT

### Installation Manual



The Delta-Therm OTS-F1 thermostat must be installed by a qualified electrician. All assembly, installation, and test instructions must be followed. Improper installation can result in property damage, serious injury, and/or death due to electric shock. Please call Delta-Therm Corporation at 1-800-526-7887 with any installation or operating questions.



#### DESCRIPTION

The OTS-F1 temperature controls have raintight enclosures with gasketed covers. The case meets the requirements for NEMA 4X enclosures.

Force and motion to operate the OTS-F1 are produced by the expansion and contraction of liquid with temperature change. The liquid is contained within an inflexible bulb and capillary and a flexible diaphragm so that all motion occurs at the diaphragm. Movement from the diaphragm is transmitted through an appropriate linkage to operate a precision switch.

#### APPLICATION

The OTS-F1 models are intended for use in heating applications requiring a temperature control with a raintight enclosure and remote sensing. It will tolerate continued spraying with water, high humidity, airborne contaminants and moderately corrosive condition. The sensing bulb may be used to sense the ambient media for freeze protection applications.

Caution: Do not use this switch for hazardous locations.

#### INSTALLING THE CONTROL

- Installation must be made by a trained, experienced service provider.
- Before beginning installation, disconnect power.
- Check the installation thoroughly upon completion
- Mount the control in a location where it will be convenient. Place as much of the capillary as possible in the controlled space or medium. Fasten to wall or panel with screws through the mounting holes in the case flange. Wire in accordance with the instructions in the wiring section.

#### WIRING - CAUTION

- Disconnect power supply before wiring to prevent electrical shock and/or damage.

**Electrical Rating**

	<b>120VAC</b>	<b>240VAC</b>	<b>277VAC</b>
<b>Resistive</b>	22.0A	22.0A	22.0A

**TESTING THE CONTROL**

After installation and wiring, to check the operation of heating systems:

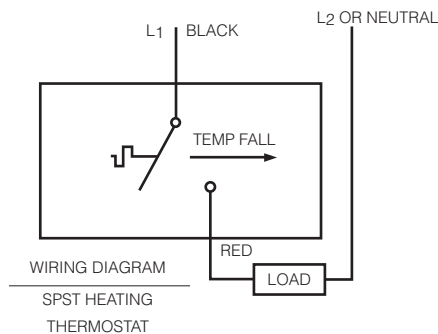
1. Disconnect power.
2. Place bulb in ice water until switch closes.
3. Verify by continuity across terminals 1 and 3
4. Restore power.



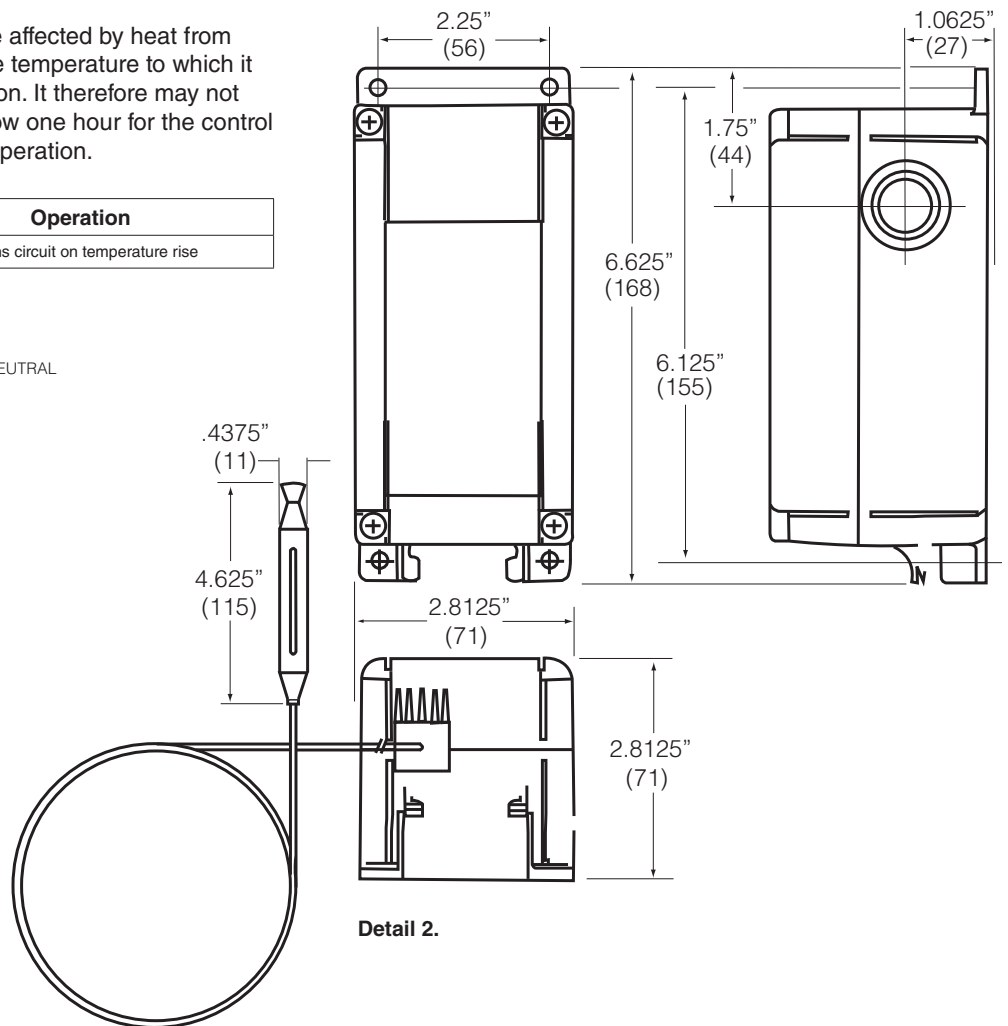
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The operation of the control may be affected by heat from the hands of the installer and by the temperature to which it has been exposed prior to installation. It therefore may not immediately operate accurately. Allow one hour for the control and system to stabilize for normal operation.

Controls	Switching	Operation
Heating	SPST	Opens circuit on temperature rise



**Detail 1.**



**Detail 2.**