![interlogix United Technologies logo]

Learn Mode Freeze Sensor Installation Instructions

Overview

The ITI Learn Mode (LM) Freeze Sensor contains a thermal couple wired to a transmitter. The LM Freeze Sensor detects a furnace failure in a home or business. It activates a switch (thermal couple) when the surrounding temperature drops to ~45°F. After the sensor is tripped, a temperature between 55°F and 60°F is necessary for the device to send a restore signal.

The LM Freeze Sensor:

- Contains an RF transmitter capable of transmitting over 500 feet.

- Is powered by a 3.5-Vdc lithium battery, which lasts 5-8 years.

- Sends a Trouble (Low Battery) report to the CPU.

- Sends a supervisory signal to CPU every 64 minutes.

- Has an operating range of 10°F to 120°F.

- Contains a built-in tamper switch. Remove the sensor cover to trip the switch. The sensor then transmits a Trouble signal to the CPU.

- Has a tamper switch, which cannot be disabled.

- Monitors an open area of about 900 square feet (30' x 30').

Installation Considerations

DO

- Try to keep sensors within 100 feet of the CPU. The 100-foot distance recommendation is given as a starting guideline. The transmitter has an open-air range of over 500 feet, but the installation environment may affect this range.

- Locate the sensor in an area that is likely to get cold first.

- Locate the sensor on an interior wall where there is free movement of air.

DO NOT

- Locate the sensor in the same room as a furnace, water heater, or any other heat source that may stay warm after the furnace fails.

- Locate the sensor on an outside wall or near the basement floor.

- Place in areas with excessive metal or electrical wiring. These items may inhibit the sensor's signals from reaching the CPU.

- Place sensor in an area where it will be exposed to moisture.

- Place the sensor in an area where the temperature will fall outside the sensor's operating limits (10°F-120°F).

Installation

⚠ **CAUTION:** You must be free of all static electricity when handling transmitters. Touch a grounded metal object before handling the circuit board. Handle the circuit board by the edges and never set the circuit board on any metallic surface.

1. Press on the cover end to disengage the top of the cover from the slot in the sensor base, and then remove the transmitter cover.

2. Remove the circuit board from the transmitter base by pushing back on the base release tab. See Figure 1.
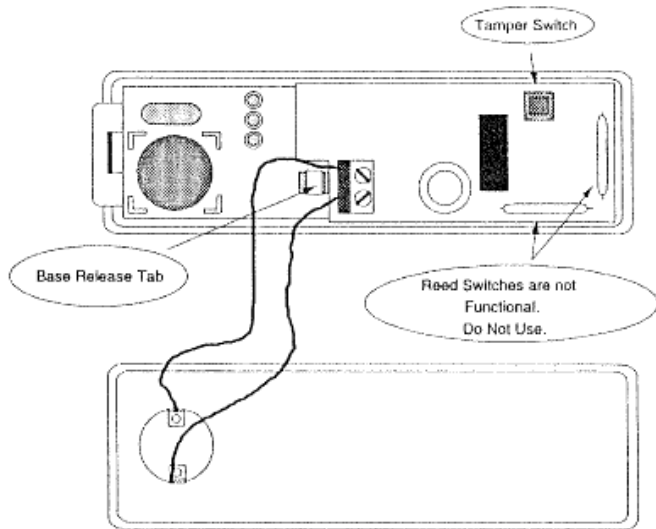
3. Place transmitter in sensor cover to protect circuit board against static damage.

4. Secure the sensor base to mounting surface by using #6 pan head screws or #18 x 1/2" wire nails (brads). If mounting on plaster, use the appropriate fasteners. Use the slotted mounting hole for alignment. See Figure 2.

Figure 2: Mounting hole locations
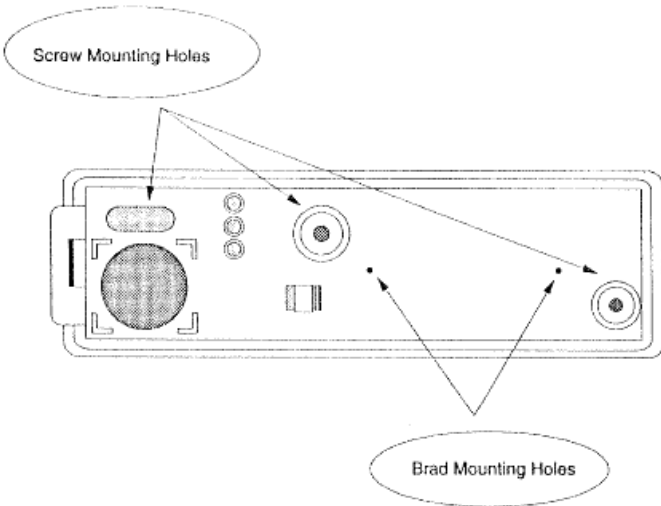
5. Replace the sensor circuit board on the base. Place the reed switch end in first, then snap the board in place at the base release tab.

6. Do not replace the sensor cover at this time.

Programming

General guidelines for programming this divce are:

1. Set the CPU into Program Mode.

2. Trip the device's tamper switch. See Figure 1.

3. Replace the sensor cover.

Note: Refer to the appropriate CPU installation manual for specific instructions for programming device into the CPU.

Testing

General guidelines for performing a Dealer Signal Strength Test are:

1. Using the appropriate touchpad for the CPU, enter the applicable Dealer Sensor Test code.

2. Cool thermal couple with a piece of ice in a plastic bag. When the thermal couple reaches ~45°F, the transmitter sends an RF signal to the CPU.

3. Note the number of beeps from the CPU. These beeps indicate the device's signal strength.

4. The device resets when the surrounding temperature reaches 55°F-60°F

Regulatory information

Manufacturer	UTC Fire & Security Americas Corporation, Inc. 1275 Red Fox Rd., Arden Hills, MN 55112-6943, USA
FCC compliance	This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
	Changes or modifications not expressly approved by Interlogix can void the user's authority to operate the equipment.
	FCC ID: B4Z-561M-FREEZE
IC compliance	IC: 1175C-561FREEZE
	This Class B digital apparatus complies with Canadian ICES-003.
	Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
	Le fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil peut ne pas provoquer d'interférences et (2) cet appareil doit accepter toutes interférences, y compris les interférences pouvant provoquer un fonctionnement non désiré de l'appareil.

Contact information

For general information, see www.interlogix.com. For customer/technical support, see www.interlogix.com/customer-support or call +1 855 286 8889.