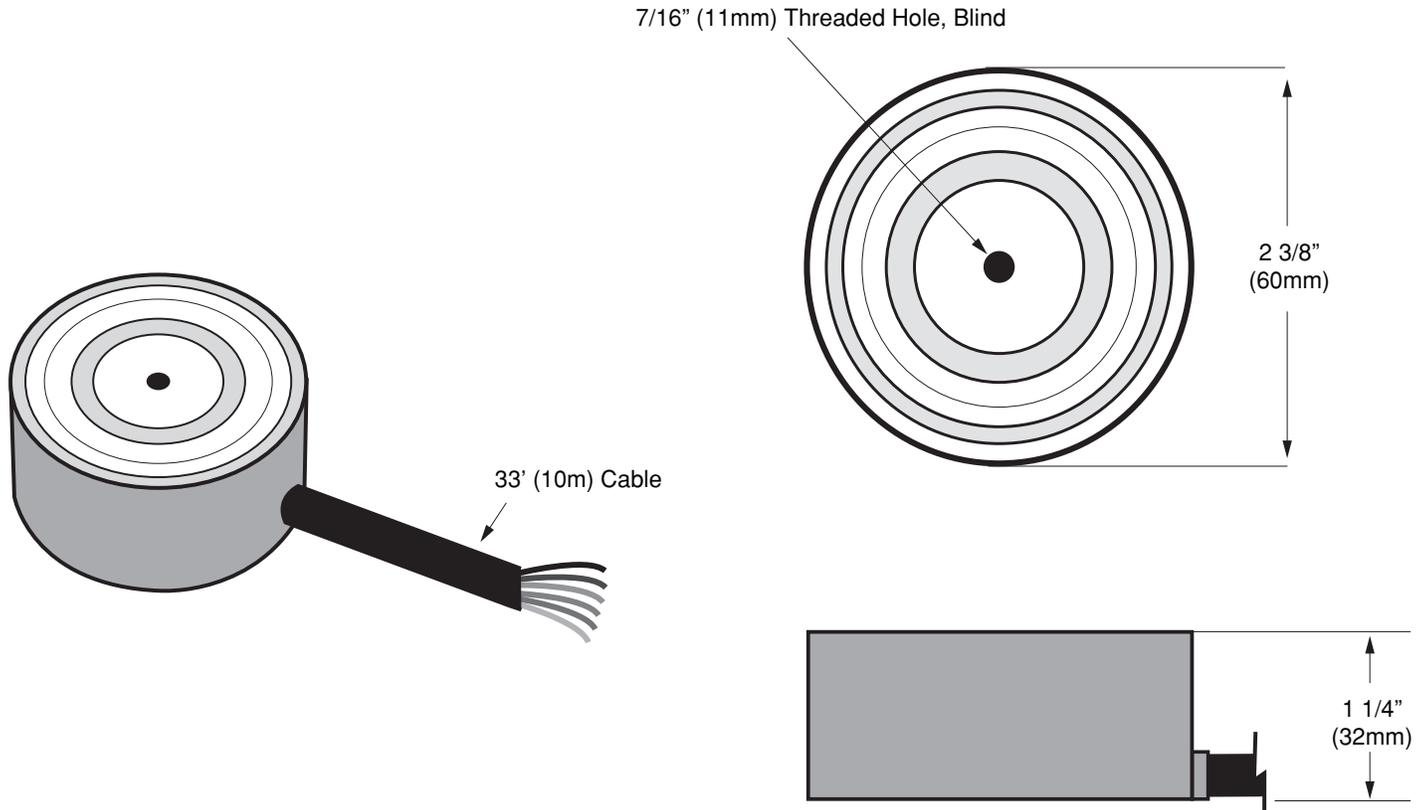WARMLY YOURS
MAKING COMFORT EASY

# Slab-Mounted Snow Sensor
## MODEL SLAB-SS
## ETOG-55
## US 224

## FEATURES & BENEFITS

• Reliable snow detection
• Detects temperature and moisture
• CSA Certified for use in Canada and U.S.

• Mounts in concrete or asphalt
• Easy to install

7/16" (11mm) Threaded Hole, Blind

2 3/8" (60mm)

33' (10m) Cable

1 1/4" (32mm)

## DESCRIPTION

The SLAB-SS Slab-Mounted Snow Sensor reliably detects snow and ice conditions on pavement surfaces when used with the SCE-120 Economy Snow Melt Control. Optimal sensing minimizes energy costs without sacrificing performance.

The SLAB-SS Slab-Mounted Snow Sensor detects snow as moisture below 38°F (3.3°C). Operating below this temperature eliminates false activation. The SLAB-SS Slab-Mounted Snow Sensor mounts in close proximity to the snow

melting cable to ensure the pavement and sensor become dry at similar time intervals. Maximum distance between sensor and control is 650' (200m) using 18 AWG wire.
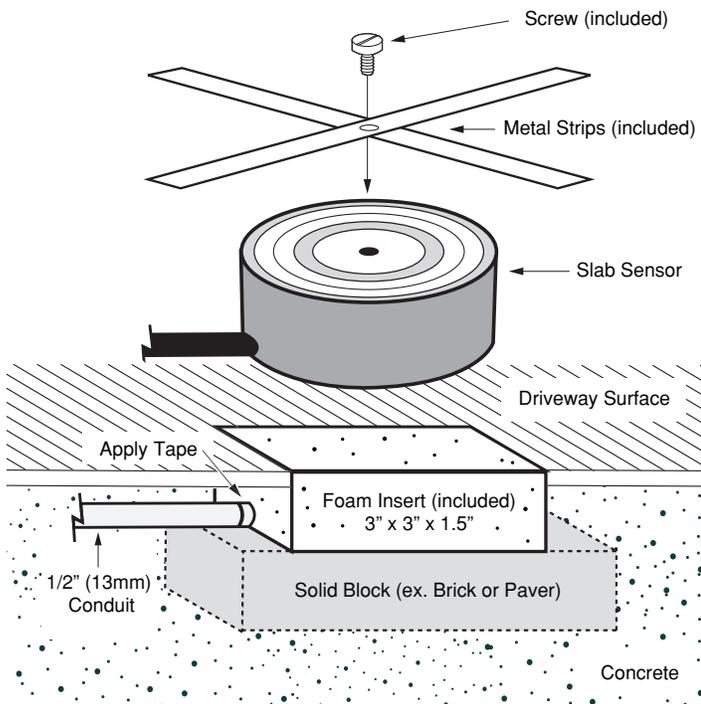
The simple-to-use mounting system helps hold the sensor in place during installation to align the unit flush with the pavement surface. Suitable for installation in concrete or asphalt when properly installed (see Typical Installation section for details). CSA certified for use in Canadian and U.S. markets.

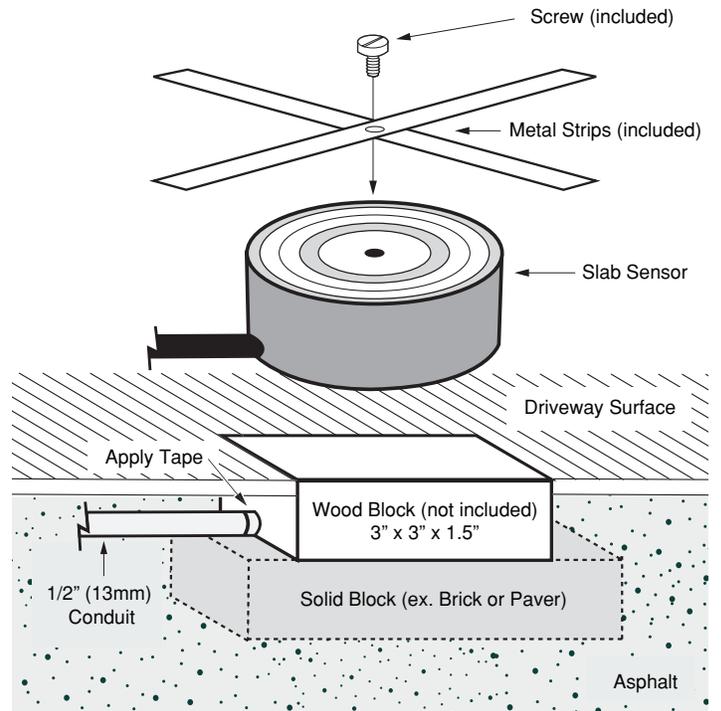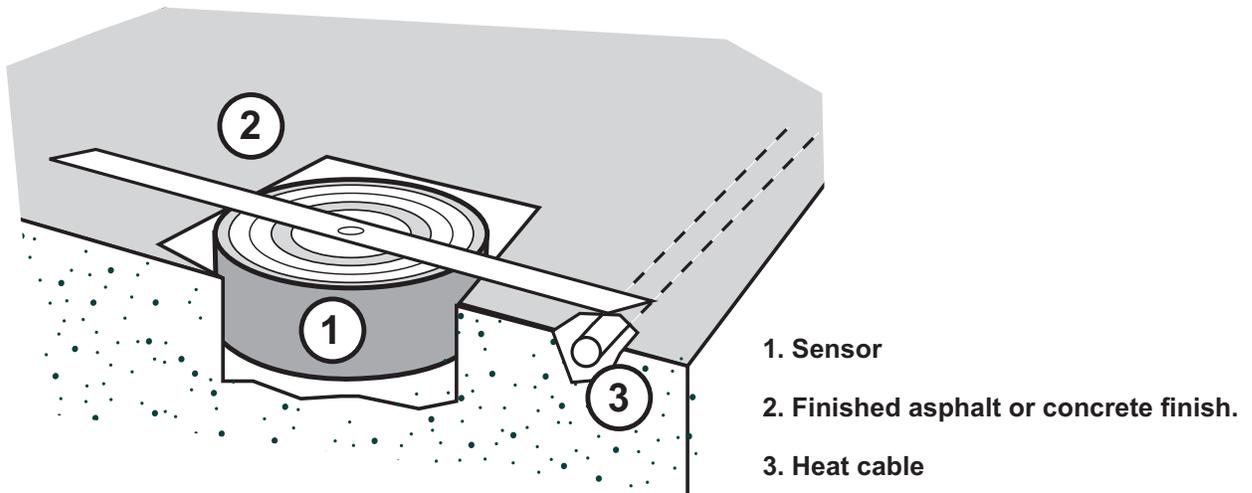Note: Sensor wire must remain separate from any high voltage wire to avoid a distorted sensor signal.

C (CSA) US

# TYPICAL INSTALLATION

## INSTALLED IN CONCRETE

Screw (included)

Metal Strips (included)

Slab Sensor

Driveway Surface

Apply Tape

Foam Insert (included)
3" x 3" x 1.5"

1/2" (13mm)
Conduit

Solid Block (ex. Brick or Paver)

Concrete

## INSTALLED IN ASPHALT

Screw (included)

Metal Strips (included)

Slab Sensor

Driveway Surface

Apply Tape

Wood Block (not included)
3" x 3" x 1.5"

1/2" (13mm)
Conduit

Solid Block (ex. Brick or Paver)

Asphalt

## DETAIL OF SENSOR INSTALLED

**2**

**1**

**3**

**1. Sensor**

**2. Finished asphalt or concrete finish.**

**3. Heat cable**

# TYPICAL INSTALLATION - cont.

## INSTALLED IN CONCRETE

Lay out conduit before pouring concrete. Cover end of conduit and place Styrofoam block (included) to create a void in the concrete while finishing. After concrete has cured, remove foam block from the end of conduit. Run cable from slab sensor through conduit and wire as required. Assemble the two metal straps to the top of the slab sensor with the screw that is furnished. Attach included straps to sensor and place into final position. Pour concrete into void and finish level with top of existing slab. Remove straps when concrete is cured.

## INSTALLED IN ASPHALT

Lay out conduit before pouring asphalt. Attach wooden block (not included) to the end of the conduit to protect opening and create a void in the asphalt. After the asphalt has cooled, cut out the wooden block and clear the end of the conduit. Run cable from slab sensor through conduit and wire as required. Assemble the two metal straps to the top of the slab sensor with the screw that has been furnished. Place sensor with assembled straps into final position and pour cold floating asphalt into void and finish level with top of existing asphalt.

## ORDERING INFORMATION

| ORDER NUMBER | DESCRIPTION | SNOW MELT CONTROL (SOLD SEPARATELY) |
|---|---|---|
| SLAB-SS | SLAB MOUNTED SNOW SENSOR | SCE-120 ECONOMY SNOW MELT CONTROL |

## LIMITED WARRANTY

WarmlyYours 2-year limited warranty covering defects in workmanship and materials applies. Contact your Account Manager for complete warranty information.

This document is the property of WarmlyYours. Subject to change without notice.

**CONTROLLER TERMINAL #**

| | | | |
|---|---|---|---|
| 11 | Brown | 1 | |
| 12 | Green | 2 | -ETOG-55 |
| 13 | Gray | 3 | Ver. 1 |
| 14 | Pink/Purple | 4 | |
| 15 | Yellow | 5 | |
| 16 | White | 6 | |
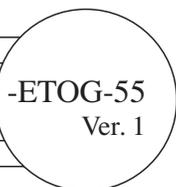
**WIRE NUMBER**

| | | |
|---|---|---|
| Wire 1 +2 | Heating Element | 300 Ohms +/-10% |
| Wire 3 + 4 | Temperature Sensor | 12 kOhms @ 25ºC/77ºF |
| | | 38 kOhms @ 0ºC/32ºF |
| Wire 5 + 6 | Moist Sensor | Dry = infinite resistance |
| | 5 = Center ring | Wet = <100.000Ohms |
| | 6 = Middle ring | |

*Ver. 2: Special label

**CONTROLLER TERMINAL #**

| | | | |
|---|---|---|---|
| 11 | Green | 1 | |
| 12 | Yellow | 2 | -ETOG-55 |
| 13 | White | 3 | Ver. 2 |
| 14 | Brown | 4 | |
| 15 | Gray | 5 | |
| 16 | Pink/Purple | 6 | |
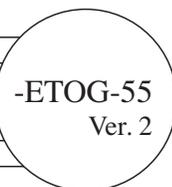
**WIRE NUMBER**

**CONTROLLER TERMINAL #**

| | | | |
|---|---|---|---|
| 11 | Brown | 1 | |
| 12 | Green | 2 | ETOG-55 |
| 13 | Gray | 3 | US 224 |
| 14 | Pink | 4 | |
| 15 | Yellow | 5 | |
| 16 | White | 6 | |

**WIRE NUMBER**

| | | |
|---|---|---|
| Wire 1 +2 | Heating Element | 224 Ohms +/-10% |
| Wire 3 + 4 | Temperature Sensor | 12 kOhms @ 25ºC/77ºF |
| | | 38 kOhms @ 0ºC/32ºF |
| Wire 5 + 6 | Moist Sensor | Dry = infinite resistance |
| | 5 = Center ring | Wet = <100.000Ohms |
| | 6 = Middle ring | |

## ALWAYS TEST SENSOR BEFORE INSTALLATION