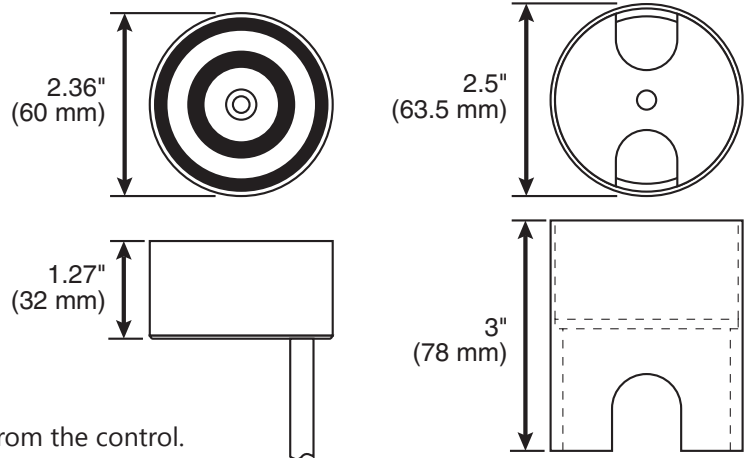


The DRVWSNS-SS snow/ice detector is used with the HeatLink<sup>®</sup> SMCP snow melt control or standard Snow Melt Panels.

*The snow/ice detector measures slab temperature, surface temperature, and moisture levels to provide feedback to the snow melt panel/control, and must be properly installed and maintained to ensure the best system performance.*

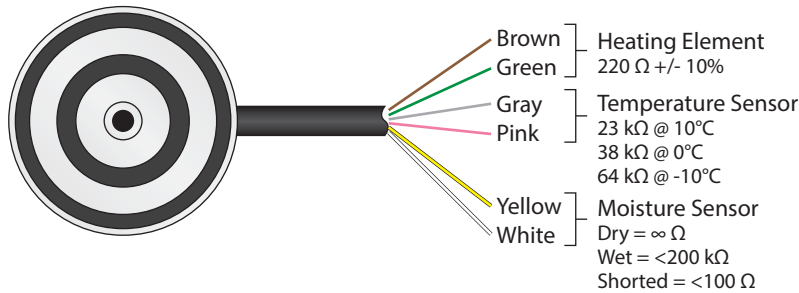
### Technical data

Detection:	Moisture and temperature
Mounting:	Outdoor surface
Cable length:	85 ft / 25 m
Enclosure rating:	NEMA 6P/IP 68
Ambient temperature:	-57 to 158°F / -50 to 70°C



### Testing the Sensor

Before testing the sensor, the wires must be removed from the control. Measure resistance between the sensor wires.



### Sensor Installation

#### Location

In order to function properly, the snow/ice detector must be installed:

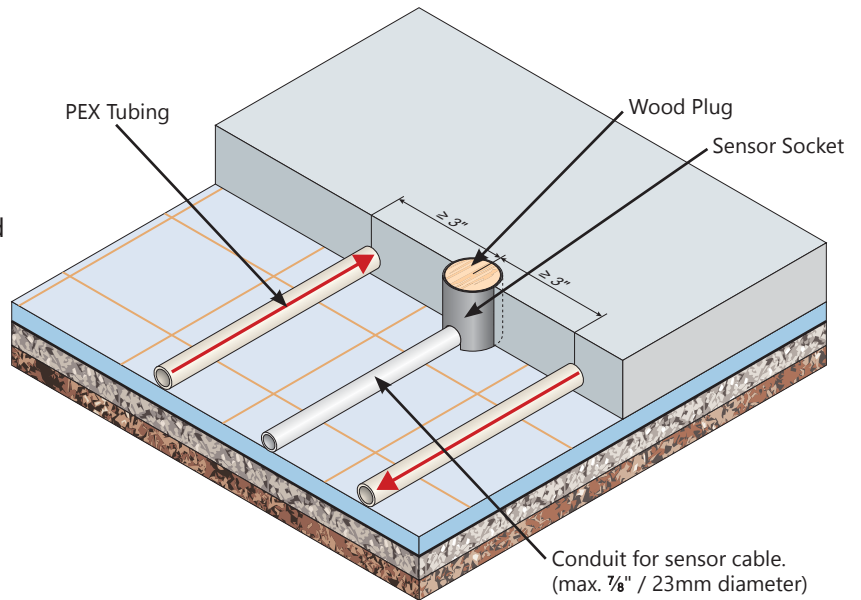
- Within the area to be heated, in a location representative of the *average surface temperature* of the slab.
- *Midway between* the heating tubing, or  $\geq 3"$  from the tubing, whichever is greater.
- Away from areas where it may be affected by abnormal temperature conditions, such as building walls, beneath exhaust vents or other heat sources, or in sunny areas within a larger slab.
- Flush with the surface of slab, and placed level, even within a sloped slab.
- Away from a location where standing water could accumulate.
- Away from areas where drainage is significantly better than surrounding areas.
- Away from overhangs, trees, or any other obstruction that could affect snow fall accumulation.
- It should be located along the tire track and in the top third of the ramp.

### Mounting of Sensor Socket

The sensor socket must be embedded with its top completely horizontal and flush with the surrounding surface. It should be embedded in and in direct contact with a hard surface, e.g. concrete or asphalt.

A conduit, up to  $\varnothing 7/8"$  (23 mm), must be inserted into the notch. It is recommended that the conduit be equipped with a cord in order to make it easier to pull the cable through.

The accompanying wood plug must be placed in the hole before the concrete or asphalt is applied. Ensure that it is securely embedded in relation to the expected surface load.



### Mounting of Sensor

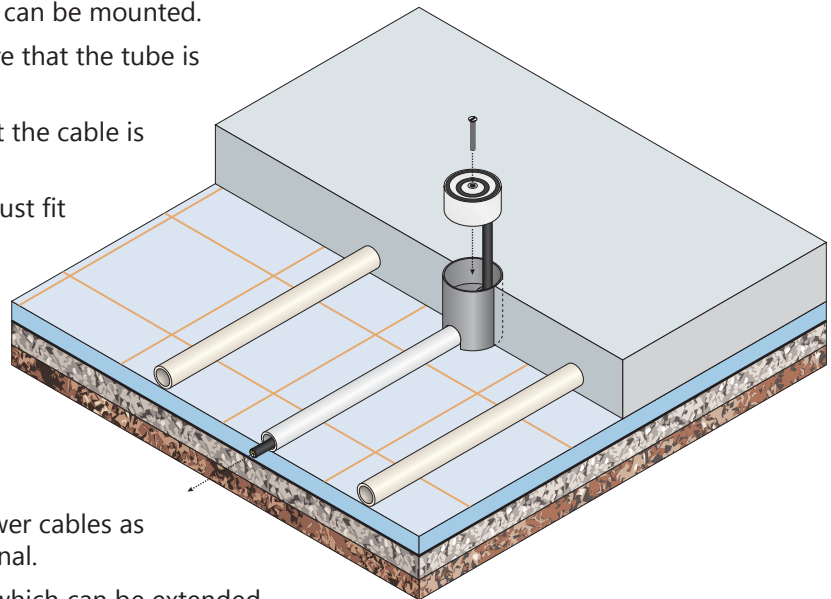
After the concrete/asphalt has cured, the sensor can be mounted.

Remove the wood plug from the tube and ensure that the tube is clean.

Pull the cable through the conduit, ensuring that the cable is not damaged on any sharp edges.

Place the sensor in the tube. The sensor cable must fit easily through the hole in the bottom.

The accompanying screw must be fitted in the middle of the sensor and securely tightened.



### Mounting of Sensor Cable

The cable must be mounted in accordance with applicable local regulations.

The cable must never be installed parallel to power cables as electrical interference may distort the sensor signal.

The sensor is supplied with 82.5 ft (25 m) cable which can be extended up to 660 ft (200 m) using standard installation cable:  $6 \times 1.5 \text{ mm}^2$ . If extended the conduit must be run to a weatherproof junction box.

The total resistance of the cable must be less than 10 ohm.

### Side View

- ① DRWVSNSS-SS sensor
- ② Conduit for sensor cable
- ③ PEX Tubing
- ④ Paving slab in case of soft substrate

