

Instructions for Installing PM-HSC5

Remote Snow/Ice Slab Sensor

The PM-HSC5 is a 24 volt, self contained snow and ice detector intended to be installed in a concrete slab or other masonry material. Each PM-HSC5 is designed to operate on supplied 24 V power. The snow sensor is heated to allow for snow, ice, or freezing rain to melt, allowing proper detection of environmental conditions.

Specifications	
Supply Voltage	24 VAC
Slab Trigger Temperature	38°F (3°C)
Run Time	5 hour, fixed
Power	1 VA cont., 5 VA max.
Housing Material	ABS Plastic
Sensor Material	Brass

Installation

The PM-HSC5 sensor should be mounted in a concrete slab or other masonry material so that the top of the sensor is level with the surrounding surface. Sensor should be placed in a location that is exposed to traffic, helping to keep the sensor surface clean of debris. The sensor can be placed in any location as long as the moisture grid is exposed to a clear view of the sky and any precipitation. However, it is best to locate the sensor within the heated zone, or next to it, to allow more direct detection of the conditions in that area.

Do not install the sensor where it will not be exposed to the elements, such as under parked vehicles. The moisture grid should not be mounted directly under trees, bushes, overhangs, or other obstructions that can block precipitation from reaching the moisture grid. When installing the PM-HSC5 in asphalt, it is necessary to encapsulate the sensor housing in a 12"x12" (304.8 mm x 304.8 mm) concrete pad.

Use only water resistant wire nuts or connectors. Make sure all conduit connections are sealed properly. The use of a duct seal compound is recommended when securing the sensor grid to the enclosure. This will help prevent water from filling the enclosure during melting.

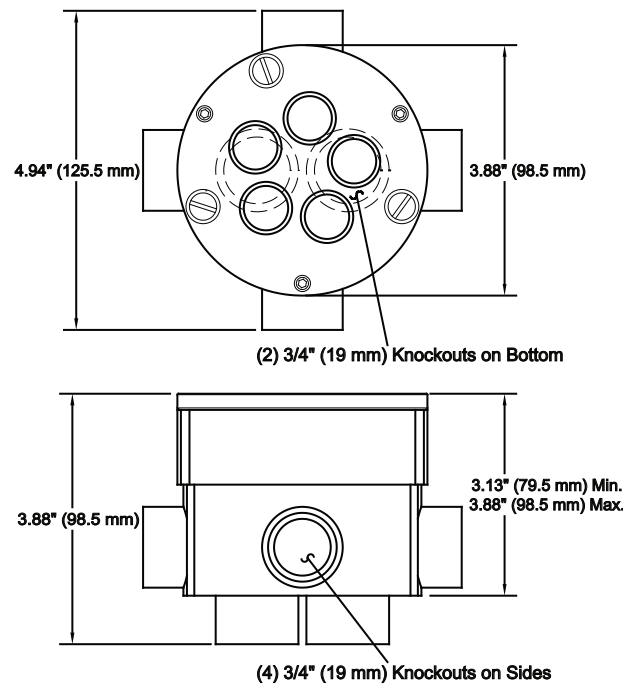
The PM-HSC5 measures pavement temperature by compensating for its internal heating element. This eliminates the cost and complexity of a separate pavement temperature sensor. Place the sensor close to the deicing heater to ensure the pavement and sensor become dry at about the same time.

Wire the controller in accordance to the provided schematics.

Operation

When ambient slab temperature is below 38°F (3°C) and precipitation falls on the heated sensor grid, a call for heat is generated, closing the internal relay.

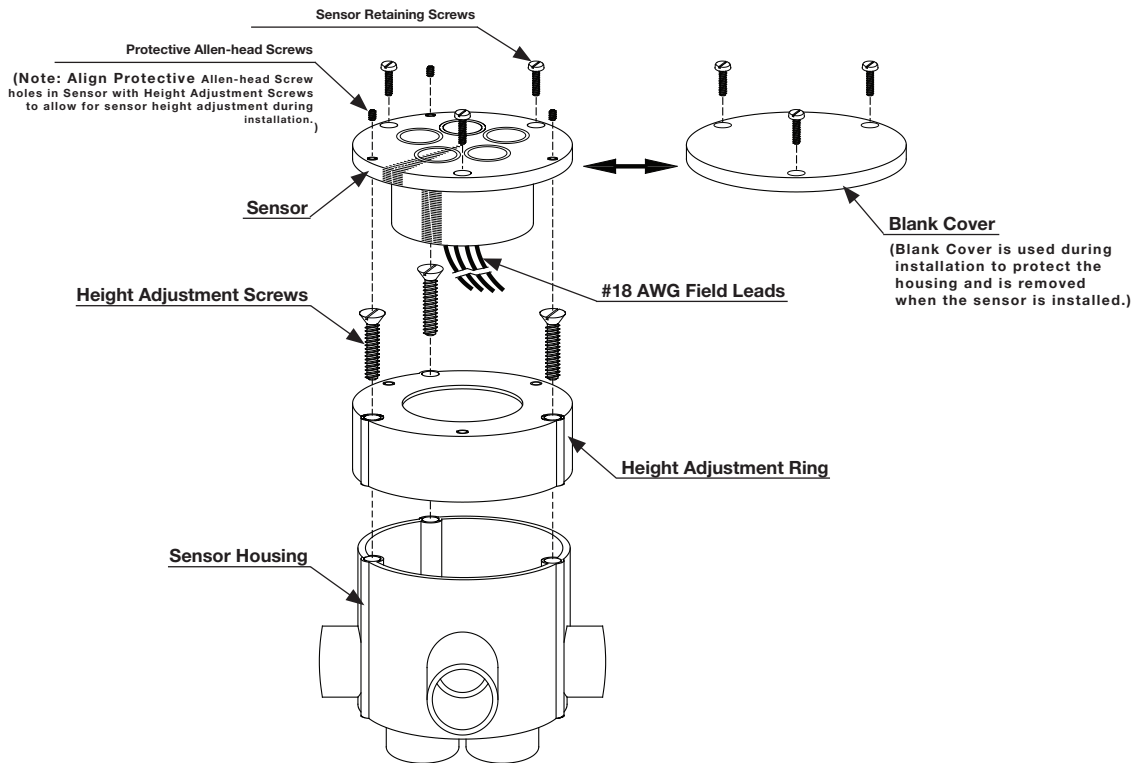
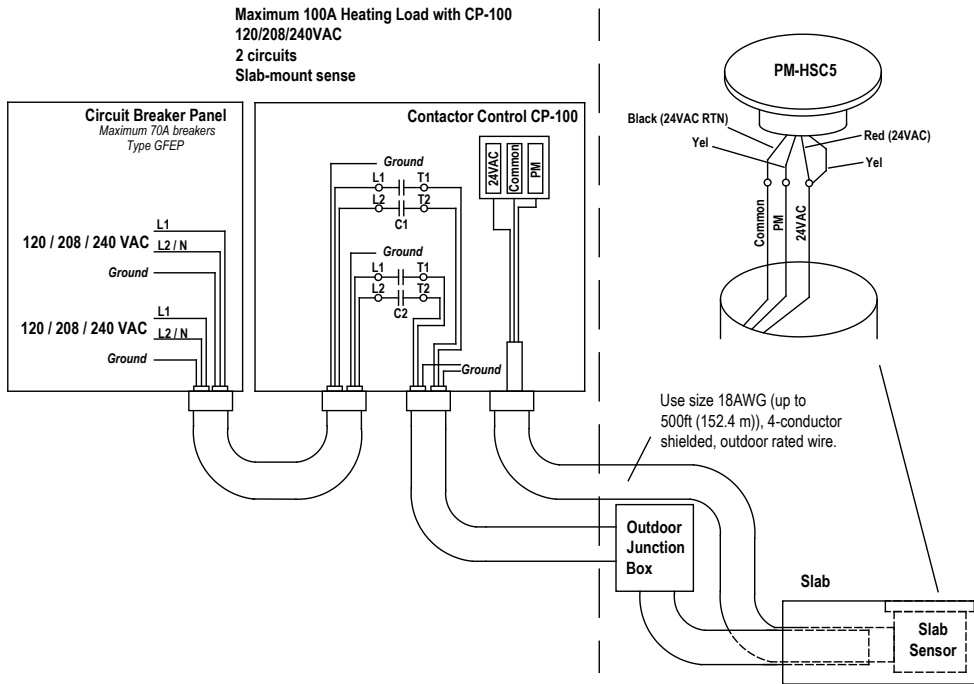
Once the moisture element has dried, the built-in, five hour hold-on timer keeps heaters operating to help ensure complete snow and ice melting. At the end of the cycle time, if moisture is still detected, another five hour cycle time will be initiated. Otherwise, the call for heat will end and the sensor will reset.



The PM-HSC5 is a slab mounted snow detector, designed to be embedded in a concrete slab, or other masonry material.

⚠ WARNING: General Safety Instructions

- 1. THIS UNIT SHOULD BE INSTALLED ONLY BY QUALIFIED PERSONNEL!**
2. Disconnect all power from the control, or any associated equipment, before opening the front cover plate.
3. Limit input voltage to 24 VAC



PM-HSC5 Exploded View

Limited Warranty: Watts Radiant (the "Company") warrants each product to be free from defects in material and workmanship under normal usage for a period of one year from the date of original shipment. In the event of such defects within the warranty period, the Company will, at its option, replace or recondition the product without charge.

THE WARRANTY SET FORTH HEREIN IS GIVEN EXPRESSLY AND IS THE ONLY WARRANTY GIVEN BY THE COMPANY WITH RESPECT TO THE PRODUCT. THE COMPANY MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. THE COMPANY HEREBY SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and the Company shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labor charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, or any other circumstances over which the Company has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

Some States do not allow limitations on how long an implied warranty lasts, and some States do not allow the exclusion or limitation of incidental or consequential damages. Therefore the above limitations may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights that vary from State to State. You should consult applicable state laws to determine your rights. **SO FAR AS IS CONSISTENT WITH APPLICABLE STATE LAW, ANY IMPLIED WARRANTIES THAT MAY NOT BE DISCLAIMED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO ONE YEAR FROM THE DATE OF ORIGINAL SHIPMENT.**

WattsRadiant[™]
Floor Heating & Snow Melting

USA: 4500 East Progress Place, Springfield, MO 65803; www.wattsradiant.com
Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca