



### MPS STANDARD COMPONENTS

The MPS control consists of a NEMA 4 control panel (MPS) with a 24 AMP N.O. (Normally Open) relay output contact a temperature/moisture sensor (RG), and a double-sided adhesive pad. For larger amp loads the relay output can also be used to activate contactors.

A 10' (3.04m) low voltage 6-conductor cable connects the MPS control panel to the RG sensor. All cable leads are color coded for ease of field wiring.

### NOMINAL COMPONENT DIMENSIONS

**MPS Control Panel:** 8.5" x 6.5" x 5" (22/17/13)

W/H/D (cm)

**RG Moisture Sensor:** 2" x 1" (5/2.5)

Dia./H (cm)

**RG Temperature**

**Sensor:** (cm) 16" (40.6) External Thermistor

**RG Sensor**

**Adhesive Pad:** (cm) 2" x 3" (6 x 8)

### INPUT POWER REQUIREMENTS

120, 208, or 240 VAC

**Note:** Input Power Must Have A Neutral Wire

## MPS

### Snow Melting Or Roof And Gutter Deicing Control

#### DESCRIPTION

The MPS is designed to detect snow or ice and automatically activate roof deicing or snow melting cable(s).

#### SYSTEM OPERATION

The MPS control panel continually monitors conditions at the RG sensor. Once the following two conditions are met the roof deicing or snow melting system is activated:

1. Ambient temperature at the RG thermistor is below approximately 35°F (2°C).
2. Snow or moisture is present on the RG sensor U-shaped clips.

When one of the above two conditions ceases the roof deicing or snow melting systems will continue to operate for 75-minutes (roof deicing mode) or 5-hours (snow melting mode) and then shut off.

The roof deicing or snow melting system will remain inactive until the two conditions are met again.

#### APPLICATIONS

*Roof Deicing Or Snow Melting*

#### APPROVALS

cUL<sub>us</sub>

## DTC120-G

### Roof And Gutter Deicing Control



#### DTC120-G SYSTEM COMPONENTS

The system consists of a control panel (DTC) with a 20A relay output contact, up to four roof and gutter sensors (GS), and one ambient thermostat (OTS-F1).

The roof and gutter sensor (GS) is epoxy encapsulated and housed in a 2" (5cm) PVC ring with 20' of 4 conductor #22 AWG wire factory connected.

The ambient thermostat (OTS-F1) is located inside a weather proof and corrosion resistant (NEMA 4X) gray thermoplastic noryl enclosure with a 10-foot capillary. The OTS-F1 enclosure may be placed indoors or outdoors. The OTS-F1 bulb must be placed outdoors in an area shielded from direct sunlight.

#### NOMINAL COMPONENT DIMENSIONS

##### DTC Control Panel:

W/H/D (cm) 10"/8"/4" (25/20/10)

##### GS Sensor:

Dia./H (cm) 2.5"/.75" (6/2)

##### RID:

H/W (cm) 2.75"/4.5" (7/11)

##### OTS-F1 Thermostat:

W/H/D (cm) 3"/7"/3" (71/168/71)

#### INPUT POWER REQUIREMENTS

120 VAC

#### DESCRIPTION

The DTC120-G is designed to detect snow or ice and automatically activate contactors for roof, gutter, and downspout deicing cables. The system will remain activated until conditions at the sensors do not require snow or ice melting.

#### SYSTEM OPERATION

The roof deicing system activates when the following two conditions are met:

1. The ambient temperature is less than the set point of 40°F (4°C).
2. Snow or moisture is present on at least one GS sensor

Once these conditions are met the roof deicing system activates and the DTC control panel checks at 35 minute intervals for moisture on the GS sensor(s). When no moisture is present on the GS sensor(s) the roof deicing system deactivates and remains deactivated until the two conditions reoccur.

#### APPLICATIONS

Roof Deicing

#### APPROVALS

UL Listed

