

RID



Remote Indicator and Activation Timer

DESCRIPTION

The RID is designed to attach to a standard single gang drywall ring or single gang box using the two 6-32 screws provided.

The RID has a 22 AWG three conductor pigtail which connects to the corresponding pigtail in the DTC enclosure or to the three terminals in the MPS enclosure marked GBR. GBR signifies the color of the wire to be connected, which is green, black, and red.

22 AWG is sufficient for up to 100 feet, larger wire sizes may be required as the distance is increased.

The wiring is class 2, low voltage.

The RID is powered from the DTC or MPS system.

The RID should not be installed in a two or more gang dry-wall ring.



TIMER/RESET SWITCH

This switch is used to activate the system to the preset time for your system.

SETTING RID TIMER

On the back of the RID is a jumper. Refer to detail 1.

For slab snow melting the jumper should be in the left position as you face the back of the device, covering the left and center metal pins. This activates the system for approximately 5 hours. Refer to detail 2.

For roof and gutter deicing the jumper should be in the right position, covering the right and center pins. This activates the system for approximately 75 minutes. Refer to detail 3.



Detail 1



Detail 2



Detail 3

RID OPERATION

The RID alone can activate the system. When the RID activates the system the bottom red light will be on to indicate power and the top red light will blink on/off to indicate that the system is being activated by the timer.

The system will either turn off when the RID times out or remain activated by the sensor(s).

When a sensor activates the system after the RID has timed out, the bottom green light will be on but the top green light will be off. The RID reset function will only reset the RID and turn off the system if no sensors are requiring system activation. If a sensor is requiring system activation and the timer reset button is pushed, the timer will stop but the system will remain on until the sensor is satisfied.

WARNING: This device must be installed by a qualified electrician. All assembly, installation, and test instructions must be followed. Improper installation can result in property damage, serious injury, and/or death due to electric shock. Call Delta-Therm at 1-800-526-7887 with any installation or operating questions.

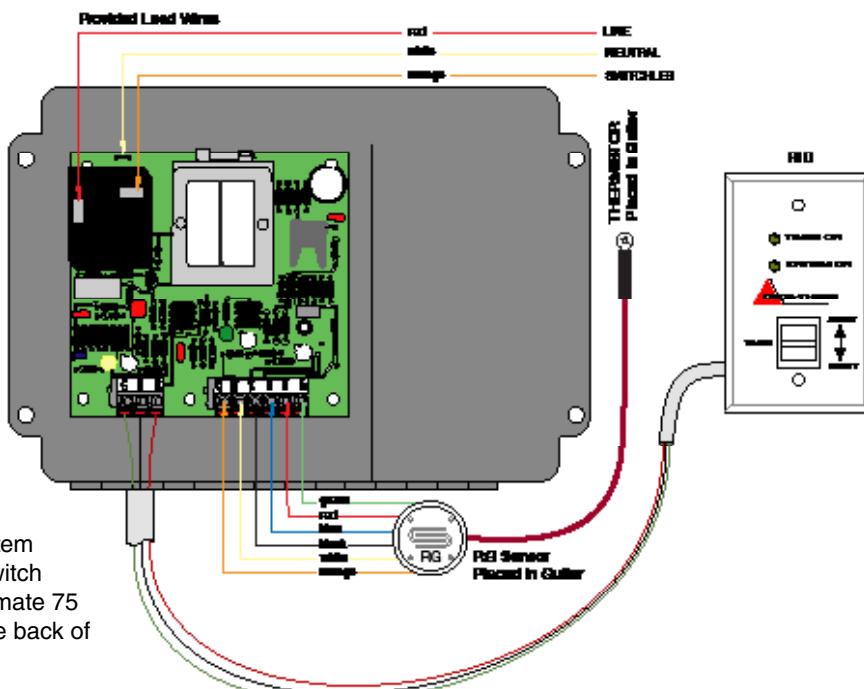
WIRING A RID TO A MPS PANEL

1. Drill a hole for a .5" (12.7mm) conduit fitting next to the RG sensor wire connector in the low voltage section of the MPS.
2. Install the .5" (12.7mm) conduit from the MPS to the RID junction box.
3. Install a low voltage three conductor cable or three insulated wires (22 awg minimum) from the MPS to the RID via the conduit.
4. Connect the red, green, and black wires of the RID to the R (red), G (green), and B (black) terminals of the MPS via the three installed conductors.

NOTE: The National Electrical Code (NEC) requires 30mA Ground Fault Protection Equipment (GFPE) on this system. Check with all local codes prior to installation.

NOTE: The RID indicates deicing/snow melting system activation and can communicate with the MPS to switch on the deicing/snow melting system via the approximate 75 minute or 5 hour timer setting with the jumper on the back of the RID.

If the deicing/snow melting system is activated by the sensor communicating with the MPS, the RID can not override the MPS to switch the deicing system off.



WIRING A RID TO A DTC PANEL

1. Fit the RID in a standard single gang electrical box opening.
2. Route a three conductor cable or three individual conductors between the RID and control unit.
3. Connect the black wire of the RID pigtail to the black wire of the control unit pigtail. Connect the white wire to white wire and the green wires to green wire. Use a minimum of 20 AWG wire.

