



Toro RainSensor™ Model TRS User's Guide

Introduction

Congratulations on your purchase of the Toro RainSensor.

The RainSensor is designed for easy installation, so your sensor-controlled irrigation system will be up and running in minutes.

Before attempting to install the RainSensor, please read through these instructions in their entirety, and refer to the instructions provided with your irrigation system controller/timer regarding the connection and use of a rain sensor or rain switch. The RainSensor is designed to work with either Normally Open or Normally Closed sensor circuits.



A Important: Please note the following information regarding installation and use of the RainSensor.

- The RainSensor is designed to operate with 24 Vac power only. Connecting the sensor control wiring to 120/240 Vac power may result in severe equipment damage.
- Installation methods must comply with all applicable national and local building codes. If you are unsure about proper wiring practices, have a qualified contractor perform the installation for you.
- The RainSensor unit should never be submerged in water or installed inside a rain gutter.

RainSensor Components (Figure 1)

- 1-Sprinkle - Press down to manually test sensor operation.
- 2-Rainfall Adjustment Cap - Enables sensor to be easily adjusted for detection of rainfall from 3mm to 19mm.
- 3-Universal Mounting Bracket with Quick Clip™ - Simplifies installation on rain gutter or roof eave/railside. RainSensor adjusts easily to the vertical position.
- 4-7.5 m control wire provided.



Detailed Installation Instructions

Rainfall Adjustment (Figure 2)

The RainSensor can be adjusted to respond when it has detected nominal rainfall in the following amounts: 3mm, 6mm, 12mm or 19mm. Carefully rotate the Rainfall Adjustment Cap so the pins are positioned in the desired slots. Be sure to align the slots and pins properly, as this adjustment does not require extensive force.

Figure 2



Changing the RainSensor Configuration

The RainSensor is configured for Normally Closed sensor circuit operation. If your controller requires a Normally Open type sensor, reconfigure the RainSensor control switch as follows:

1. Refer to Figure 3. Unscrew the bottom cover. Carefully slide the switch board assembly out.
2. Carefully pull the wire connector from the left tab of the switch and attach it to the center tab. Leave the right wire connected.
3. Reassemble the RainSensor making sure the switch board is properly inserted.

Figure 3



Mounting the RainSensor

Select a mounting location for the RainSensor as close to the controller as possible. If the 7.5m connection cable will not reach the controller, it can be extended up to 30.5m using 1 mm² outdoor rated wire. The RainSensor location must be away from sprinkler spray, exposed to unobstructed rainfall and have similar sun exposure as the landscape being watered.

A rain gutter is an ideal location for the RainSensor. Simply position the bracket with the thumbscrew under the gutter lip and tighten to secure (do not over-tighten). See Figure 4.

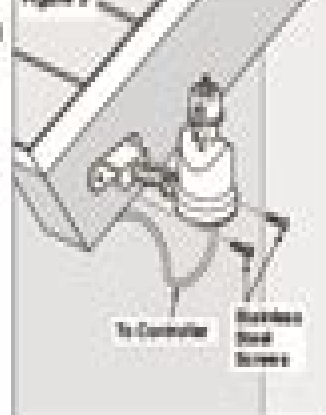
The RainSensor can also be mounted on any suitable solid structure such as the pitched edge of the roof, a shed or fence using the two supplied stainless steel screws. See Figure 5.

Once fastened securely, adjust the RainSensor on the mounting bracket as needed to align the housing vertically.

Figure 4



Figure 5



Routing the Control Wire

After mounting the RainSensor in a suitable location, carefully route the sensor wire back to the controller. Avoid routing the wire over sharp edges where abrasion may occur. For best results, hide the wire where possible by tucking it under shingles and/or moldings. Seal any holes made by passing the wire through structures.

Toro Rainmaker Manual

Yicheng Fang



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