

# Win-Trol M2100 Window / Skylight System

## Rain Sensor Installation Instructions

### Things You Need To Know Before You Start

- It is important that you read and understand all the instructions pertaining to the installation of the Rain Sensor in an M2100 Window / Skylight Motor System.
- Your M2100 Window / Skylight Motor System should be functional before installing the Rain Sensor.
- The LC-I Control Switch and LC-II Control Switch automatically performs a close sequence when power is first applied or after a power interruption of more than 10 seconds. This is a normal procedure that may take several minutes to complete.
- When power is first applied or after a power interruption of more than 10 seconds, the "Reset" button on the LC-I Control Switch and LC-II Control Switch must be pressed to reinitialize the system.
- Pressing the "Reset" button on the LC-I Control Switch and LC-II Control Switch will cause the motors to go through an open/close sequence that may take several minutes to complete.
- The LC-I Control Switch and LC-II Control Switch will control up to three (3) windows / skylights if M2100 Motorized Locks are not used. They will also control one (1) window with up to two (2) M2100 Motorized Locks.
- The window / skylight hardware should be clean and easy to operate.
- The M2100 Window / Skylight System is intended for **indoor use only** with screens in place.
- The M2100 Window / Skylight System is **not intended for egress windows**.
- **Do NOT** wire the M2100 Window / Skylight System with power applied. Connect the power only after the motor connections are verified. Damage or incorrect operation may occur if motor connections are made with the power applied.

### Safety Precautions



**DANGER:** To help prevent severe personal injury or death,

- **Wiring must be installed by a qualified electrician according to local and National Electrical Codes (N.E.C). Use only Class II wire.**
- **Disconnect the main power before beginning the installation. Verify that power is OFF by testing with a voltage meter that you know is working correctly.**
- **To prevent the possibility of electrocution, remove the power from the motor system and circuit that will be used for the permanent connection.**



**WARNING:** To help prevent personal injury,

- **The screen interlock MUST be correctly mounted and is a required part of the M2100 Window / Skylight System. It is intended to help prevent injury which could result from reaching into the window or skylight area during operation. The correct installation of the screen interlock is the responsibility of the installer.**
- **Do not allow children to operate the wall push button(s) or remote control transmitter(s). Unexpected closing of the window or skylight could cause injury.**



## Installation Instructions

The Rain Sensor can be used with an LC-II Control Switch, IR Receiver, or RS Module to automatically close the windows/skylights when moisture is detected. **Do Not** use the Rain Sensor if the control is being used as a smoke vent or if "Open & Hold" is required (see the LC-II Control Switch Installation Instructions for an explanation of "Open & Hold").

### Step 1 - Gather Your Tools

- #2 Philips head screwdriver
- 1/8" (3.0 mm) bladed screwdriver
- 1/10" (2.5 mm) bladed screwdriver
- Electric drill motor
- Drill bits (1/4" and 1/16")
- An awl for marking mounting holes
- 22 AWG, 2-conductor, shielded, twisted-pair, wire for the sensor

### Step 2 - Run Electrical Wires

1. A Rain Sensor can be connected to every LC-II Control Switch, RS Module, and IR Receiver in your system. If RS Modules or IR Receivers are used to control multiple LC-II Control Switches, the Rain Sensor can be connected to one of them to provide group control. The Rain Sensor can also be connected to the LC-II Control Switch if only localized control is desired.
2. Use 22 AWG, 2-conductor, shielded, twisted-pair wire, 50 ft. (15 m) maximum.
3. Run the wires between the Rain Sensor and the LC-II Control Switch, IR Receiver, or RS Module. Run low voltage wires at least 12" away from high voltage wires to avoid any electrical interference.

### Step 3 - Install Rain Sensor

1. Use care not to bridge the contacts with the head of the screw when mounting the Rain Sensor.
2. Install the Rain Sensor with the "grid" exposed. Mount at an angle to prevent moisture from pooling on the grid.
3. Consider prevailing winds when placing the sensor. Keep away from obstructions.
4. The Rain Sensor can be mounted outside (maximum sensitivity) or inside the vent edge (minimum maintenance).
5. Connect the Rain Sensor to the LC-II Control Switch, IR Receiver, or RS Module. Connect the shield to GROUND (G). Refer to the wiring diagram on page 3.



# Win-Trol's Window/Skylight System Wiring Diagram

