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Dimming LED Light System

Lateral Awning Installation

Helper Needed

Tools needed: A clean cloth and alcohol based solvent, Drill and Drill Bit, Safety Glasses, Pencil, Phillips Screwdriver, Ladder, and a helper.

Parts Supplied: LED Light Strips (one for each Lateral Arm), Light Control Box, Twelve pieces of 5" X 5/16" Double-Sided Foam Tape, two each #8 x 1" Screws and Anchors.

NOTE: One Multi-Channel Remote Transmitter is packed with the Motorized Awning if both are ordered together. If the Dimming LED Light System is ordered separately, or for a Manual Awning, the Multi-Channel Remote Transmitter is packed with the Light Strips. See **Figure 1**.

Not shown in **Figure 1** are the included Power Cord, two Low Voltage LED Light Strip Cords, and Velcro Strips.

WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PERSONAL INJURY! PLEASE READ THESE INSTRUCTIONS IN ITS ENTIRETY BEFORE ATTEMPTING TO COMPLETE THIS INSTALLATION.

Figure 1

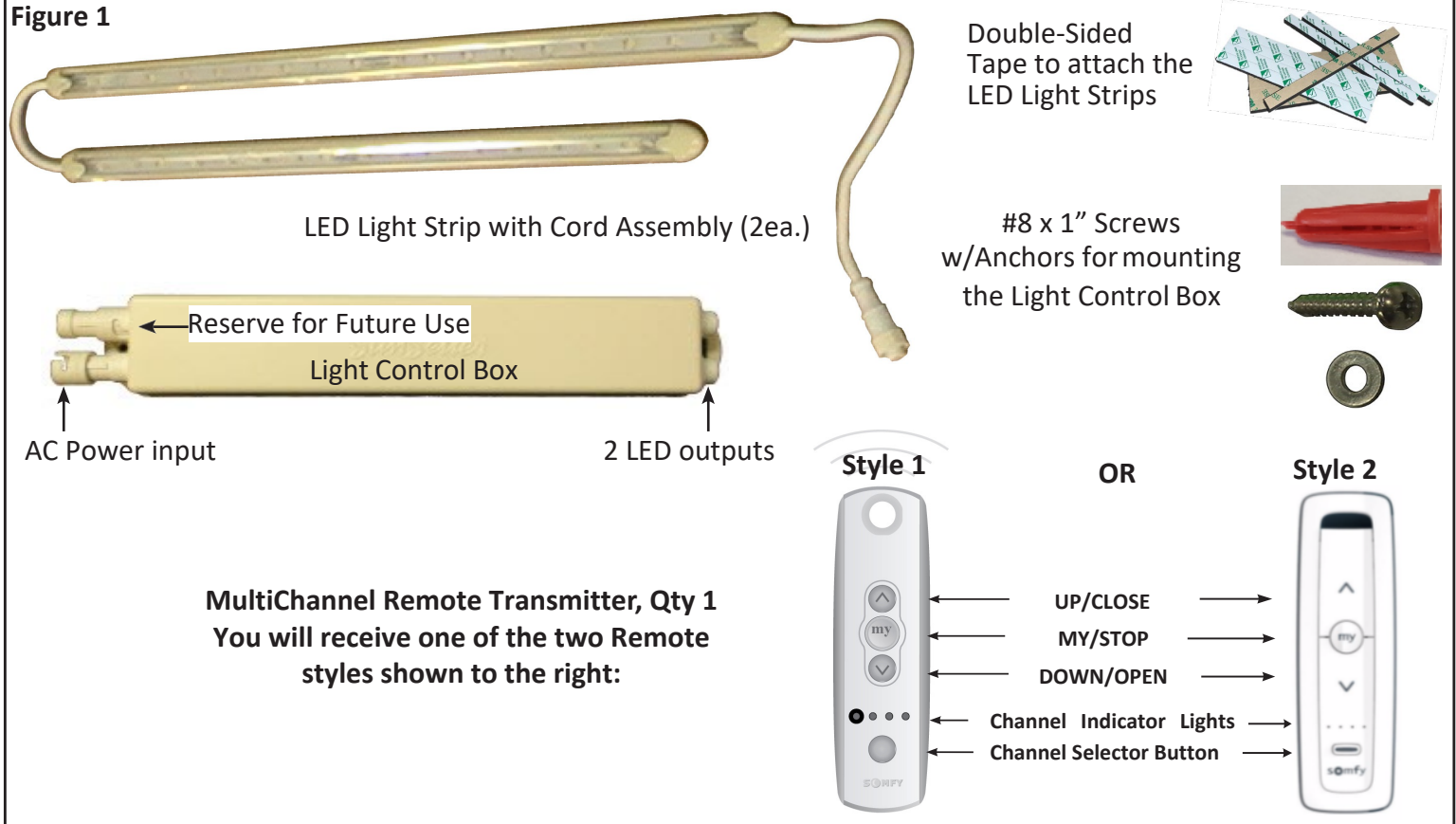


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Attach Double-sided Tape and Install LED Light Strips

1. Extend the Awning to its fully open position. On Motorized Awnings, unplug the Power Cord on the Awning to prevent accidental movement of the Awning during installation of the LED Lights.
2. The LED Light Strips attach to the Lateral Arms of the awning using Double-sided foam tape strips. Begin by removing the backing paper off one side of a tape strip, then attaching it in the groove on the LED light strip as shown in **Figure 2** below.



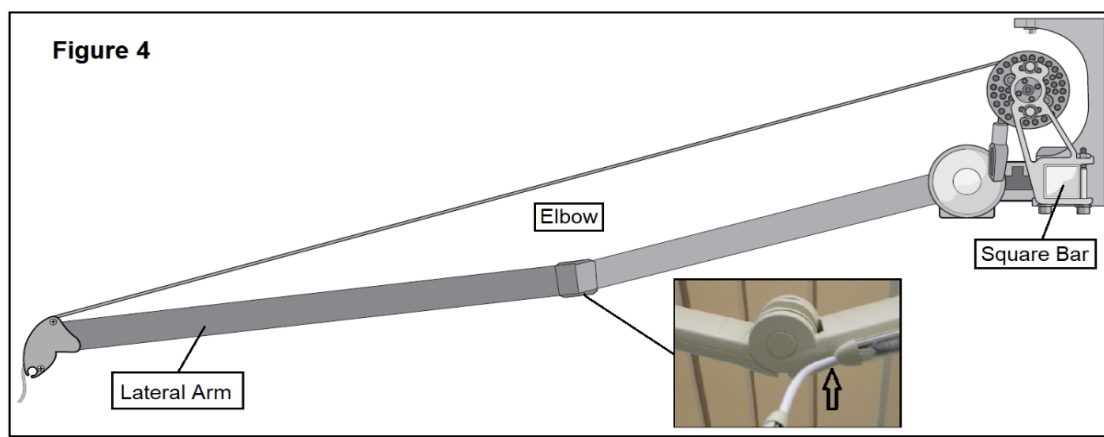
3. Each LED Light Strip has 2 segments, each segment will need six pieces of Double-sided foam tape. Evenly distribute the foam tape on each segment. Do this for both LED Light Strips.

NOTE: A ladder will be needed to complete this installation. Have your helper hold the lateral arm steady while performing the following steps.

NOTE: For Awnings with a projection between 7' - 11' 8", the LED Light Strips can be mounted on the bottom OR top of the Lateral Arms.

For Awnings with a projection of 13'1", the LED Light Strips MUST be mounted on **TOP** of the Lateral Arms.

4. Clean the bottom (or top, depending on chosen mounting surface) of the Lateral Arms with a cloth and alcohol-based solvent.
5. Take one LED Light strip and peel the backing paper from the foam tape strips on the segment with the power cord.
6. Attach this part to the half of one lateral arm closest to the wall. **Starting at the elbow**, center the strip on the seam running along the length of the arm. Position the strip close to the elbow, as shown by the arrow in **Figure 4**. Press lightly when first attaching, the strip can be re-positioned if needed.



7. When the LED Segment is centered on the arm, press firmly along the tape strips to set them in place. Wrap the power cord behind the square bar on the awning.
 8. Remove the backing paper from the strips on the remaining segment, then attach at the other side of the elbow as shown in **Figure 5**. Again, be sure the segment is centered on the arm before firmly setting the tape.
- Note: Leave enough slack in the power cable between the two LED Light Segments to allow space for the Lateral Arms to close without tugging the cable, which could pull the lights off the arms.**

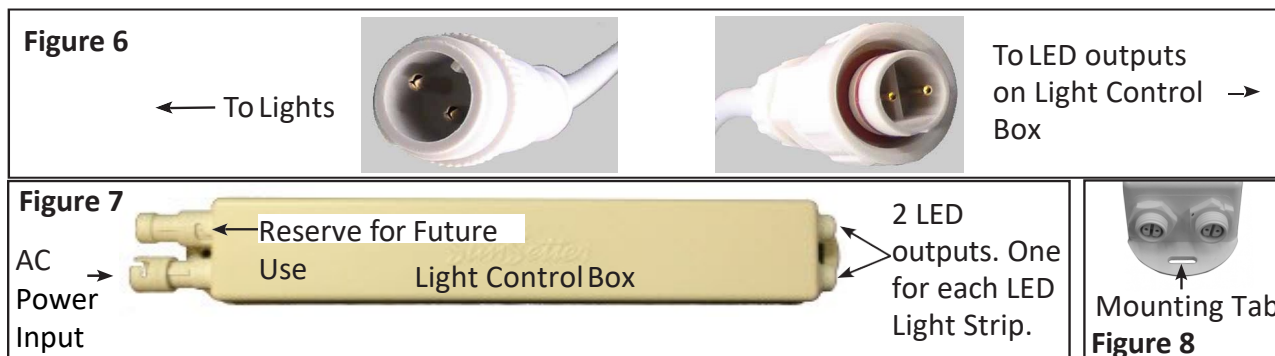


9. Repeat steps 4 to 7 for the other LED Light Strip.
10. You may now remove the protective plastic film from the LED Light Strips.

Mount the LED Light Control Box

Note: DO NOT PLUG IN THE LED LIGHT SYSTEM TO THE POWER OUTLET UNTIL INSTRUCTED TO DO SO.

1. Connect the Waterproof Plugs on the LED Lights to the Low Voltage LED Light Strip Cords.
2. Connect the other end of the LED Light Strip Cords to the LED Outputs on the LED Light Control Box, **to be sure you have enough length of Cord when positioning the Light Control Box**. See **Figure 6**.
3. Connect the 120v AC power cord to the Light Control Box, **but do not plug in to the wall outlet**. Make sure you have enough length of Cord to **reach the wall outlet** (GFI recommended).
4. Locate the Light Control Box on the wall underneath the Awning.
5. Mark the two (2) hole locations on the wall, through the Mounting Tabs on each end of the Light Control Box. See **Figures 7 and 8**.
6. Disconnect all Cords from the Light Control Box.
7. **You Must Remove the Light Control Box** from the wall and place it in a safe and secure location.
8. Drill holes at the marks on the wall. Depending on your particular installation, use either a 1/8" drill bit for the wood screws, or a 3/16" bit for the red masonry anchors.
9. Secure the Light Control Box to the wall using the supplied #8 x 1" screws.
10. Connect only the LED Light Strip wires to the Light Control Box with the provided Cord Assemblies.
11. Secure the Cord Assemblies to the back of the Square Bar using the supplied Velcro Strips.
12. For Motorized Awnings only, plug in the Motorized Awning motor (not the LED power) into the GFI outlet.
13. Install the Mounting Post for the Remote Transmitter in a dry location.

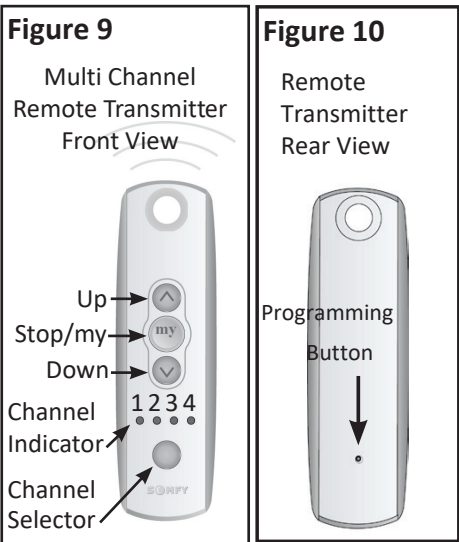


The Multi-Channel Remote Transmitter

The Multi-Channel Remote Transmitter must be programmed to the Light Control Box the first time the LED Light System is plugged in. SunSetter recommends **Channel 1** be used to operate your Awning and **Channel 2** be used to operate your LED Light System, unless you did not purchase a motorized Awning, then use **Channel 1** to operate your LED Lights.

How to Use the Multi-Channel Remote Transmitter (See Figs 9 & 10)

- To identify the active Channel, press and release the Channel Selector button. The active Channel Indicator Light will blink for about **5 seconds**.
- To move to the next Channel, press and release the Channel Selector button while the Channel Indicator Light blinks. The next Channel becomes active. That Channel Indicator Light blinks for about **5 seconds**.
- All four blinking Lights indicates **Channel 5** is active.
- Channel selection moves in order **from Channel 1 thru 5, then back to 1**.
- Remote Style 1 uses a 3V Lithium CR2430 battery; Remote Style 2 uses a 3V Lithium CR2032 battery. (See **Figure 1**)



Program the Multi-Channel Remote Transmitter to the LED Light System

Use either Section A, B or C

<div>Section A</div> <div>For LED Lights purchased WITH Motorized Awning, use Steps A1 - A4.</div> <div>Channel 1 for Motor Channel 2 for Lights</div>	<div>A1. Set the Remote Transmitter to operate on Channel 2 (see Figure 9).</div> <div>Note: Channel 1 operates your Awning, use Channel 2 for the LED Lights.</div> <div>A2. Plug the Light Control Box into a GFI outlet. The LED Lights will blink, slowly.</div> <div>A3. Press the UP and DOWN buttons on the Remote Transmitter (see Figure 9) at the same time (for about three seconds). The LED Light strips (mounted on the Awning) will blink, slowly.</div> <div>A4. Press and Hold the Programming Button on the back of the Remote Transmitter (see Figure 10) until the LED lights (mounted on the awning) blink, slowly. The LED Light System programming is now complete.</div>
<div>Section B</div> <div>For LED Lights purchased SEPARATELY from Motorized Awning, use Steps B1 - B7.</div> <div>Channel 1 for Motor Channel 2 for Lights</div>	<div>B1. Set the Remote Transmitter to Channel 1 (see Figure 9).</div> <div>B2. On the Remote Transmitter that controls your Awning; press and hold the Programming Button (see Figure 10) on the back of the Remote, release after the Awning jogs.</div> <div>B3. Press and hold the Programming button (see Figure 10) on the back of the New Multi-Channel Remote Transmitter until the Awning jogs. Your Awning is now programmed to operate on Channel 1 on your new Remote Transmitter.</div> <div>B4. Set the Multi-Channel Remote Transmitter to Channel 2 (see Figure 9).</div> <div>B5. Plug the Light Control Box into a GFI outlet. The LED lights will blink slowly.</div> <div>B6. Press the UP and DOWN buttons on the Remote Transmitter (see Figure 9) at the same time until the LED lights (mounted on the Awning) blink, slowly.</div> <div>B7. Press the Programming Button on the back of the Remote Transmitter (see Figure 10) until the LED lights (mounted on the Awning) blink, slowly.</div> <div>B8. The original Remote Transmitter continues to operate your Awning. The LED Light System programming is now complete.</div>
<div>Section C</div> <div>For LED Lights with a Manual Awning, use Steps C1 - C4.</div> <div>Channel 1 for Lights</div>	<div>C1. Set the Remote Transmitter to operate on Channel 1 (see Figure 9).</div> <div>C2. Plug the Light Control Box into a GFI outlet. The LED lights will blink, slowly.</div> <div>C3. Press the UP and DOWN buttons on the Remote Transmitter (see Figure 9) at the same time until the LED lights (mounted on the Awning) blink, slowly.</div> <div>C4. Press the Programming Button on the back of the Remote Transmitter (see Figure 10) until the LED lights (mounted on the Awning) blink, slowly. The LED Light System programming is now complete.</div>

Operation of the LED Light System

The **LED Dimmer** can be used to dim the level of the LED Light strip to either **full ON**, **full OFF**, or in increments. The different levels can be achieved either by **pressing and releasing** a button, or **pressing and holding** a button as described below.

Turning the LED strip full ON

To turn the LED Light strip **fully ON**, press & release within $\frac{1}{2}$ **second** the **UP** button on the Remote Transmitter. Any time the **UP** button is pressed and released within $\frac{1}{2}$ **second**, the LED strip will turn **fully ON**.

Turning the LED strip full OFF

To turn the LED strip **fully OFF**, press & release (within $\frac{1}{2}$ **second**) the **DOWN** button on the Remote Transmitter. Any time the **DOWN** button is pressed and released within $\frac{1}{2}$ **second**, the LED strip will turn **fully OFF**.

Dimming the LED strip ON

When the LED strip is **fully OFF**, press and hold (for more than $\frac{1}{2}$ **second**) the **UP** button on the Remote Transmitter. As you continue to hold the **UP** button, the LED Lights will gradually dim up to **fully ON**. When a desired dimming level has been achieved, release the **UP** button.

The LED Light strip can be dimmed from any level by pressing and holding (for more than $\frac{1}{2}$ **second**) the **UP** button on the Remote Transmitter.

Dimming the LED strip OFF

When the LED Light strip is **fully ON**, press and hold (for more than $\frac{1}{2}$ **second**) the **DOWN** button on the Remote Transmitter. As you continue to hold the **DOWN** button, the LED Lights will dim down to **fully OFF**. When a desired dimming level has been achieved, release the **DOWN** button.

The LED strip can be dimmed from any level by pressing and holding (for more than $\frac{1}{2}$ second) the **DOWN** button on the Remote Transmitter.

Favorite “my” Position

A favorite dimming level can be memorized as described below.

Use the Remote Transmitter to set the LED strips to a desired dimming level.

Press and hold (for approximately **5 seconds**) the “**my**” button on the Remote Transmitter until the LED Light strips blink. This level has now been memorized, and the LED Light strips will be set to this level whenever the “**my**” button is pressed and released (within $\frac{1}{2}$ **second**).

To memorize a new favorite dimming level, follow the same procedure. The previous favorite dimming level will be overwritten.

LED 3 hour Timer

The LED Control has a 3 hour Timer that can be enabled or disabled, as desired. The Timer is disabled in the factory default mode.

With the Timer enabled, the control will automatically turn off the LEDs 3 hours after the last command is given.

- **Enable the Timer:** Simultaneously press and hold for approximately 7 seconds the **UP**, **MY**, and **DOWN** buttons until the LEDs give a fast blink.
- **Disable the Timer:** Simultaneously press and hold for approximately 7 seconds the **UP**, **MY** and **DOWN** buttons until the LEDs give a fast blink.

Each time the **UP**, **MY** and **DOWN** buttons are held for 7 seconds, the Timer will toggle on or off.

- One blink = 3 hour Timer Enabled
- Two blinks = 3 hour Timer Disabled.

Master Reset to Factory Mode

To restore the LED Light System to the FACTORY mode (in which it ships from SunSetter), use this procedure:

1. Unplug the LED Lights for 5 seconds.
2. Plug in the LED Lights for 10 seconds.
3. Unplug the LED Lights for 5 seconds.
4. Plug in the LED Lights. The LED Light Strips will start a slow on/off blink cycle that will continue for 2 minutes if no other commands are given. Go immediately to **Step 5**.
5. While the LEDs are in the on/off blink cycle, PRESS and HOLD the programming button on the remote transmitter until the LEDs give a fast blink on/off, then a second blink on/off, and then remain off.
6. Unplug the LED Light System. The Light Control Box is now reset to factory mode and can be programmed with any Remote Transmitter.
7. Go to **Program the Multi-Channel Remote to the LED Light System on Page 4**.

WARNINGS:

- DO NOT ATTEMPT TO OPEN THE LIGHT CONTROL BOX FOR ANY REASON, AS THERE ARE NO USER-SERVICEABLE PARTS INSIDE. FAILURE TO FOLLOW THIS WARNING CAN RESULT IN AN ELECTRIC SHOCK AND CAUSE PERSONAL INJURY.
- DO NOT ATTEMPT TO DISTURB OR REMOVE THE WATERPROOF WIRING SEALS ON THE OUTSIDE OF THE LIGHT CONTROL BOX. SEE FIGURE 11.

Figure 11



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Thank you for choosing SunSetter