

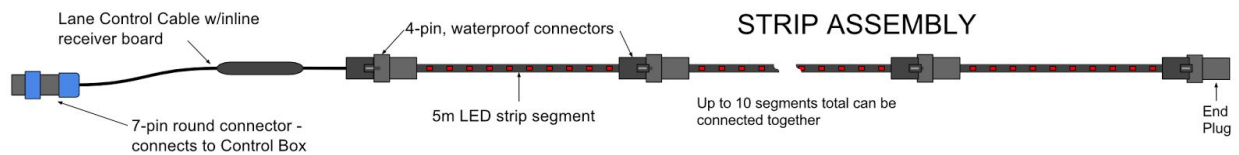
Using Modular LED Light Strips

Starting in the summer of 2017, LumaLanes LED light strips are manufactured in 5-meter segments which can be connected together to make any length strip up to 50 meters long. Earlier versions of the strips were manufactured in fixed lengths of either 25 yards or 25 meters and had to be ordered with a special option to allow them to be connected to make a longer strip. With the new modular design all strips are “extendable”.

In addition, the modular design allows you to swap out a segment should it get damaged or fail for any reason. LumaLanes ships an extra segment with each system so that you have a spare.

Modular LED Strip Assembly

Each strip assembly consists of a Lane Control Cable, and one or more LED light segments, each connected together with 4-pin, waterproof connector as shown here:



The last segment should have an “end plug” on the last connector to keep the water out of the connector.

Note: if you ordered a 25 yard strip, then the last segment will not be a full 5 meters long, but instead is 2.7 meters so that the overall length of the strip is 25 yards. This special short segment is sealed on the end and doesn't need an end plug.

Note About Strip Lengths

Because the connectors add a bit of length, each segment is slightly longer than 5 meters, and so the overall strip length may be longer than the nominal pool lane length. Usually the extra length is “used up” by contouring of the pool bottom (i. e. the slope into the deep end). If the pool bottom is not sloped, you can let the far end of the strip bend up along the wall at the end, but avoid any sharp bends. A second option is to put a little side-to-side “wiggle” or curve in the strip to take up the extra length.

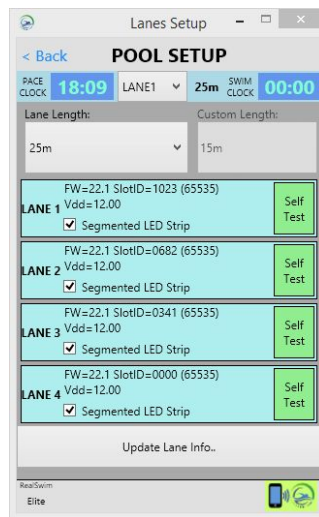
Configure the SwimPacer App for Modular Strips

You need to configure the SwimPacer app so that it ‘knows’ you are using a modular/segmented strip, that way the app can adjust the timing and display of the LED lights to account for the small “gap” between each segment. Each connection takes up the same space as one set of 3 LEDs, so the app will ‘skip’ one set of LEDs every 5 meters so that the lights move at the correct speed and cover the proper distance.

To configure the app for modular strips, go to the Pool Setup page and check the “Segmented LED Strip” option for each lane which has a segmented strip attached:

LumaLanes Modular LED Light Strip User Guide

REV171027A



NOTE: If the app does not have the option for Segmented LED Strips, you will need to update to a newer version of the app. If the option is present, but is grayed out, that means the firmware on the control box needs to be updated -- see the SwimPacer User Manual for instructions. If you have an older control box, it may also need to be upgraded with newer lane controllers -- contact LumaLanes for more information.

Using the 4-pin Waterproof Connectors

The connectors used to connect the strip segments together (and also to connect the lane control cable to the strip) are a 4-pin “latching” waterproof connector. The connectors have a plastic latch which locks the connection together, and you must carefully lift up on this latch and gently pull the connectors apart to separate them. **Be careful to not lift up on the latch too far or it will break.**

Using the Strips in Separate Lanes

If you have enough segments to put together more than one light strip and have a Lane Control Cable for each strip, you can assemble them into multiple strips. Each control box can run up to 4 lanes. Do not connect more than 10 segments (50 meters) together as it can overload the electrical outputs on the control box and possibly damage them.

Combining Strips Together

Multiple strips can be connected together to make a longer assembly. To do this remove the Lane Control Cable from one strip and the end plug connector from the other strip, then connect the first strip to the end of second one. Be sure to put an end plug on the very end of the assembly if there is not one already.

Do not forget to change the lane length setting in the SwimPacer app after changing the length of your light strip(s).