Star Series™
Star Floor Kit

(CLSSFK25-50 or CLSSFK50-50) LED driven Fiber Optic Lighting

star FLOOR

CLSFJB
12VAC 5W max.

Suitable for Outdoor Use - Type 3R Environment

S.R.Smith

Installation Instructions

Read all instructions before attempting to perform installation work

S.R.Smith™

Contents

These unique fixtures and fiber optics cable kits will allow for the installation of fiberoptic lights into the interior of a concrete (gunite) pool. These kits are NOT designed for use in fiberglass or vinyl pool applications. The CLSSFK50-50 (50 fixtures) kit are installed in the same manner as the CLSSFK25-50 except that there are 2x the fixture looms with 2 light sources in the CLSFJB2 enclosure.

* Note: New for 2018 are longer fiber lengths to allow for more creative layouts. If the linear distance to the CLSFJB enclosure is significantly shorter than the fiber supplied, an additional pull box may be needed near the CLSFJB to coil and store the excess fiber. **DO NOT CUT THE FIBER.**

S p e c i f i c a t i o n s :

Do not exceed the maximum electrical output rating of each unit listed below.

Input	Total Power
12VAC	CLSSFK25-50 = 5W
	CLSSFK50-50 = 10W

INSTALLATION INSTRUCTIONS

1. Install the Color Light Streams Fiber Junction Box (CLSFJB or CLSFJB2) as per instructions supplied with the Color Light Streams Fiber Junction Box.

2. 1.5" conduit should be run from the area where the CLSFJB is located to the general location within the pool where the Star Floor fixtures are going to be located. The CLSSFK50-50 kit will require two (2) 1.5" conduits from the CLSFJB2 to the area or areas where the fiber cables will exit into the pool. Make allowances for a 1.0 – 0.75" conduit adaptor to be used to make the connection to the CLSFJB enclosure, appropriate hubs will need to be provided.

3. After the concrete shell has been formed and rough cleaned, the poolside 1.5" conduit(s) should then be trimmed down so that it is at or just below the interior surface level.

4. Take the Star Floor Kit assembly and layout the fiber so that the fiber can be pulled back through the conduit. It also helps the fiber get warm, so that it is easier to place the fixtures down on the pool surface.

5. Mark on the pool's interior surface a location for each Star Floor Fixture.

   * Note: It is recommended that after this point in the installation you go to a location where you can view the overall design of the Color Light Streams Star Floor Fixtures before proceeding further.

6. At this time, pull the fiber through the conduit and remove any slack from the pools interior.

7. Use a small amount of caulking or epoxy on the base of each Color Light Stream Star Floor fixture to hold it in place on the gunite surface.
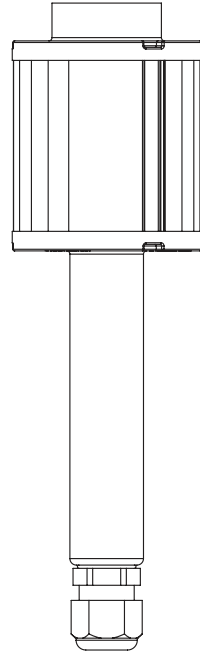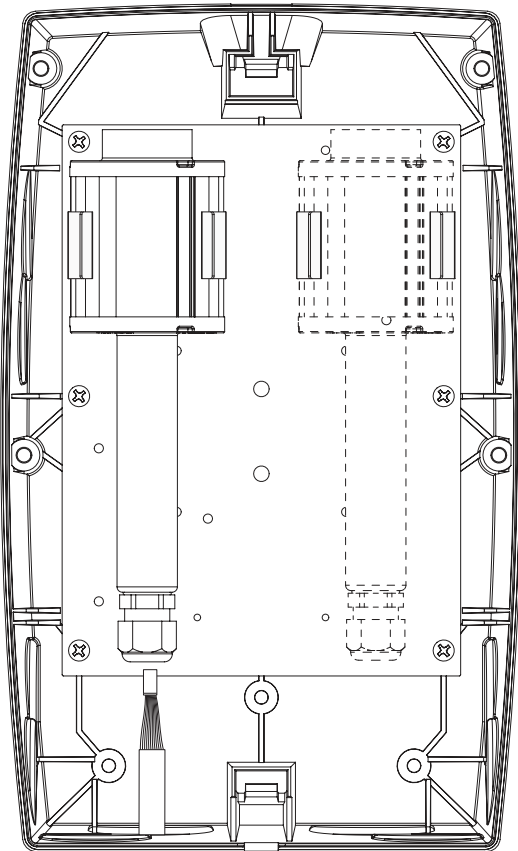
   Note: You may also elect to form a shallow pocket in the gunite in which the Color Light Stream Star Floor Fixture can be caulked to. This helps reduce the amount of plaster, etc. that will be required to cover the fixture.

8. Make sure all the fiber running from each Color Light Streams Star Floor fixture is laying flat. You may want to use a small amount of caulk on any strands that are trying to rise up off the floor.

   * Note: You may elect to cut or groove channels in the shell floor to allow the fiber cables to sit down neatly and reduce the amount of finish material required to make the floor flat. This will also help protect the fiber from damage during the troweling process.

1. Remove the Color Light Streams™ LED light source from the box.

2. Loosen the large compression fitting on the end of the Rod Adaptor. Insert the fiber ferrule into the LED Driver until you cannot push the ferrule any farther. HAND tighten the LED Strain Relief until the fiber is held snug and secure.

3. Thread the power cord into the low voltage conduit of the CLSFJB and pull back toward the power source.

4. With caution – gently pull the ferrule end of the fiber through the conduit, the 1.0" or 0.75" reducer and into the CLSFJB enclosure. Do not pull on the metal ferrule itself.

PROCEED WITH CAUTION

Make sure all of the Star Floor Fixtures are secured in place. Use caution when bringing the finish material into the pool as the fixtures are very fragile at this stage and may be crushed by the material itself or damaged if stepped on.

Use the plaster or finish material to cover over all of the Star Floor Fixture bases, fiber and conduit entry points. It is very important to ensure that there is no leakage at the conduit entry point(s).

Finishing

1. Once the interior surface has dried, trim each Color Light Streams Star Floor Fixture flush with an electric hot knife or low speed cutting wheel for plastics.

2. To change the light effect out of each fixture you may do the following to the remaining stem of the fixture that is flush with the interior surface:

   a. Polish the tip with wet/dry sand paper. This will give you the smallest but most intense point of light that will be best seen from directly above the tip.

   b. Use a medium grade sand paper and sand the tip end. This will achieve a larger, softer effect than item (a).

   c. Use a very heavy grade of sand paper and make the tip end extremely rough. The rough tip end will produce the largest and generally brightest effect from the fixture.

3. Terminate / Port the illuminator end of the fiber according to directions above on page 3 (Fiber Port Installation).

4. The final step is to connect the Low Voltage cable to an approved Class 2, 12VAC (basic mode) or an S.R.Smith poolLUX™ brand power supply

DO NOT under any circumstance wire the LED light source directly to 110VAC power source - permanent damage will occur.

This product requires little maintenance and in fact over time, if the Color Light Streams Star Floor Fixture tips become rougher, the tips will glow even brighter as long as they are free from dirt.

Multiple kits can be used to create more elaborate effects.

This product can also be used in most decking materials.

Any questions, please contact the SR Smith Customer Service or Technical Services Departments for more information.

| *** Note:** | CLSSFK25-50 | This kit includes 25 fixtures, two strands each at 50' lengths. One (1) 12VAC LED light source. |
| | CLSSFK50-50 | This kit includes 50 fixtures, two strands each at 50' lengths. Two (2) 12VAC LED light sources. |

Basic Operation for LED CLS-2is
When connected to an approved, 12VAC, Class 2 or better power supply - The S.R. Smith CLS-2is LED color changing light source uses simple 'off / on' power switching to control the basic, pre-defined color modes with memory function. This allows for a variety of simple control layouts to best fit your application.

Memory
The new memory function will allow the user to have the same color light as last used. For example, if the light was last used in Blue mode, the next time the light is simply turned on - it will use the memorized color.

Color Mode Selection
Due to the memory function, when the lights are switched on, they will display the last used color. To move to the next color mode, simply toggle the power to the lights 'OFF / ON' within 1 second or faster.

Advance through the modes until the desired color (mode) is selected - the modes will cycle 1,2,3,4,5,6,7,8, then cycle back to #1 and repeat (see table at bottom of this page).
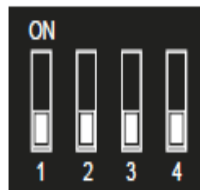
Color Sync - Reset
The memory function may make it difficult get all lights to Color Sync depending on how the units are installed and tested. To synchronize all lights on the system including older *Fiberstars LED Series Pool lights, you must use the following sequence:

1. Turn lights 'ON' to confirm the color modes are out of sync.

2. Turn lights 'OFF' for 5 seconds or more.

3. Toggles lights 'ON' / 'OFF' three times within three seconds - must end in 'OFF' condition

4. Leave lights in 'OFF' condition for 5 seconds.

5. Turn lights 'ON' and confirm that all lights are in mode #1, Soft Color Change

COLOR MODE SELECTION GUIDE	
Mode 1	Soft Color Change
Mode 2	White
Mode 3	Blue
Mode 4	Green
Mode 5	Red
Mode 6	Amber
Mode 7	Magenta
Mode 8	Flash Color Change

* Older Fiberstars LED lights can synchronize with the newest generation lights ONLY if they have their DIP switches in their default, 'All Down' position. In a mixed environment, the Color Sync Reset will need to be performed each time the lights are used and color synchronization is desired.

Advance Control Protocol (ACP) provides dimming and custom color control through a dedicated color remote control. All S.R. Smith LED lights (Treo®, Fiberglass®, Treo Micro®, kelo) and 2015 or later water features are ACP compatible.

WARRANTY INFORMATION

For Lighting product warranty information and details, please visit our website:
www.srsmith.com/warranty

Questions?

Contact One of Our Dedicated Lighting Specialists.   **1-800-824-4387**   x4012 or x2282

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