



**SCM-CC Color Caster  
Operating instructions  
Rev 8-9-13**

**Connections:**

**Red Wire:** +12 or +24 Volts, 3.5 Amps at 12 Volts, 1.8Amps at 24 Volts.

**Black Wire:** Common Ground

**Green Wire:** Optional Push button Control Wire (Install a momentary push button that connects this wire to ground.)

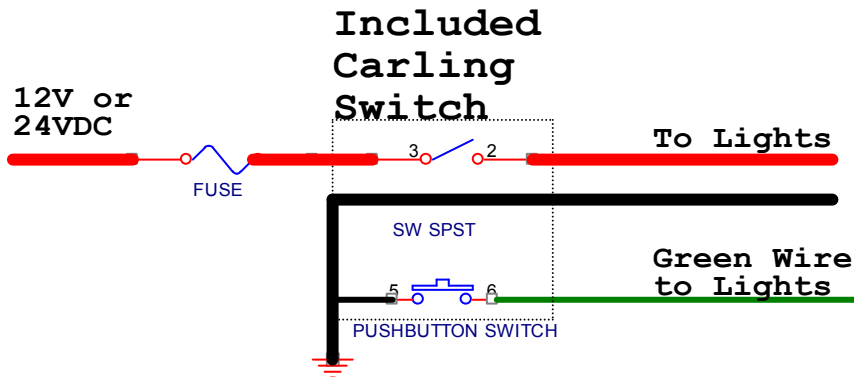
**Orange, Yellow Wire:** Shadow-NET connections. These are for connection to a "Shadow-NET" compatible controller. If no Shadow-NET connection is present, simply leave unconnected.

**Operation:** The Color Caster SCC-10 is an underwater light that can be easily changed between four colors (Blue, White, Green and Red). There are three ways of communicating with the light and telling it to change colors.

1. Power Toggle Control. (Done by quickly turning the input power off and then back on within 2 seconds.
2. Push Button Control. This is an optional control that can be accomplished by installing a push button connected between ground and the **Green Wire**. (See Figure 1)
3. Communicating directly to the light through the "Shadow-NET" interface. This is done by installing a "Shadow-Net" enabled Controller.

**Power switch toggle:** The Color Caster has unique circuitry to detect when the power has been toggled. The lights must be turned off and then back on within 2 seconds for this condition to be recognized. Toggling the power input will change the Color Casters to the next color state. Toggling the Power Switch will cycle through the available colors in the sequence of Blue, White, Green and Red. When the power is turned off for more than 10 seconds, the lights will reset and return to the Blue Color State.

**Push Button:** The push button interface requires the installation of a push button switch. This will access the additional features listed below. Shadow Caster provides a marine grade ON/OFF switch with integrated power toggle and pushbutton switch manufactured by Carling. The appropriate wiring for this is shown in figure 1.



**Figure 1:**

By pressing the Push Button switch, the Color Casters will go through the following modes of operation:

1. **Strobe:** The lights will strobe on whichever color it is currently on.
2. **Blue to White Fade:** The Color Casters will fade from white to blue. They will change colors approximately every, 20 seconds
3. **4 Color Fade:** The Color Casters will rotate between all four available colors on a 20 second cycle, Starting with Blue, then White, Red and Green
4. **Flash:** The lights will flash on whichever color they are set to.
5. **Multi Color Flash:** The lights will flash and consecutively alternate between Red, Green, Blue and White.
6. Back to Solid Color

If an optional lighted switch is used, it should be wired as below.

