

# ECO Lines™ F80/F150 RGY Color Change Guide

This is a supplemental user manual for F-Series Line Projectors that have color switching. Line colors and sequences can be manually set and remain in memory, or they can automatically switch via switches or a 0-10V control signal.

## Description

Each RGY line projector incorporates a control board for color changing functions. The control board is configured with two buttons: M (mode) and S (speed). There are two inputs to the control board: switching and variable voltage. Both inputs are wired to the control panel, switch contact in the front, along with the M and S buttons, and variable 0-10V contact in the rear.

**⚠ WARNING: Applying voltage to the switch contact input will damage the control module. Only the 0-10VDC input is configured for variable voltage.**

## Color mode configuration

Switch voltage is designed to be configured with a switch such as a motion sensor and will alternate between selected modes based on the switch state. Variable voltage enables the projector to change between color presets based on the input voltage.

### Switch voltage



### Variable voltage



### Input 1 – Switch voltage

Mode 1: open contact  
 Mode 2: closed contact (dead short)  
 Cycle mode 1 color: single press M button  
 Cycle mode 2 color: single press M button  
while holding S button

- |                    |                             |
|--------------------|-----------------------------|
| Start: Off         | 7: Red/Green Alternating    |
| 1: Green           | 8: Green/Yellow Alternating |
| 2: Red             | 9: Red/Yellow Alternating   |
| 3: Yellow          | ☉ Order repeats             |
| 4: Green Flashing  |                             |
| 5: Red Flashing    |                             |
| 6: Yellow Flashing |                             |

### Input 2 – Variable voltage

Off: 0-1V  
 Green: 1-2V  
 Red: 2-3V  
 Yellow: 3-4V  
 Green Flashing: 4-5V  
 Red Flashing: 5-6V  
 Yellow Flashing: 6-7V  
 Red/Green Alternating: 7-8V  
 Green/Yellow Alternating: 8-9V  
 Red/Yellow Alternating: 9-10V

**See following flowchart for additional details on controller**

**Controller logic flowchart**

