ECO Lines™ F80/F150 RGY Color Controls Guide

This is a supplemental user manual for F-Series Line Projectors that have color switching.

Description

The projectors can switch the line colors between red, green, and yellow. Additionally, there are flashing and alternating sequences. Once set, they remain in memory, even after loss of power.

Line colors and sequences can be manually set, switched by an external contact or sensor or can automatically be selected via a 0-10V control signal.

Each projector incorporates a controller. It has two buttons: M (mode) and S (speed).

Mode allows for selection of presets in static and switch contact modes, and speed sets the frequency of the flashing and alternating color patterns.

It has two inputs:

- Input 1: switch contact
- Input 2: variable 0–10V voltage.

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

Static Color Mode (Mode 1)

The static mode defines the color or sequence that appears when the projector is powered on.

Set the Static Mode by repeatedly pressing the **Mode Button** until the desired color or sequence is reached, it will remain in memory. If no further automation is desired, configuration is done.

Switch Mode: After selecting the Static Mode (Mode 1), select **Mode 2** by holding the **Speed button** and cycling with the **Mode button**.

Automation Modes

Control modules, such as motion and light sensors, enable the automation of colorchanging behavior. For instance, the relay output of a motion detector can switch a line from green to red as a vehicle approaches. Such sensors are wired to the **Switch input** (Input 1):

Switch Input 1

Depending on the sensor state, there are two modes:

Switch open: Mode 1Switch closed: Mode 2

Variable voltage Input 2 enables the projector to change between color presets based on the input voltage connected to **Input 2**.

If Input 1 and Input 2 are connected, the 0-10V signal on Input 2 overrides the Switch Input 1

Switch Input 1

M15 connector Ext. Contact

Variable Voltage Input 2



Input 1 – Switch

Input 2 - Variable voltage

Mode 1: open contact		Off: 0–1V
Mode 2: closed contact (dead short)		Green: 1–2V
Cycle mode 1 color: single press M button		Red: 2–3V
Cycle mode 2 color: single press M button while holding S button		Yellow: 3–4V
		Green Flashing: 4–5V
Start: Off	7: Red/Green	Red Flashing: 5–6V
1: Green	Alternating 8: Green/Yellow Alternating 9: Red/Yellow Alternating © Order repeats	Yellow Flashing: 6–7V
2: Red		Red/Green Alternating: 7–8V
3: Yellow		Green/Yellow Alternating: 8-9V
4: Green Flashing		Red/Yellow Alternating: 9–10V
5: Red Flashing		See following flowchart for
6: Yellow Flashing		additional details on controller

Controller Logic Flowchart

