

**Prop and Scenery Lights, LLC**  
[www.propscenerylights.com](http://www.propscenerylights.com)  
**Product Specification Sheet**  
**(Flickering Flame Control, LED Flame Simulation, fast flickering)**  
**LED Lighting Control P/N: FFC1**



**Electrical Characteristics**

- 1) Input voltage 5.0 - 24 volts DC LED Lighting Systems, 1.5 amp Max. at 5-12 volts and 0.75 amp Max. at 24 volts.
- 2) Output rating: 18 watts Max. The FFC1 controls (switches) the negative (-V) power, the positive (+V) passes through the unit. Idle current when off is typically 10ma or less at 12 volts input, disconnect batteries when not in use to preserve battery life. The typical PWM frequency is 240 Hz.
- 3) Operation usage temperature range, within -4°F to +140°F
- 4) Control Button functions:
  - **The Mode button** provides six dynamic effects, and the Static dimming mode
  - **The Light button** is used to set the control to static dimming mode while in any dynamic mode, pressing the mode; button starts the dynamic mode again.
  - **The Speed (On/Off) button** provides ten speed levels for dynamic modes. In the static dimming mode this button provides dimming in 10 steps, 10% - 95% Ref. This button is also used to turn the unit off when it is held longer than 3 seconds Ref. (In the fastest flickering speed the frequency across the various modes ranges from 1 Hz to under 6 Hz, the average flickering frequency at the fastest speed is 3.3 Hz.)

Mode #	Average Light Level	Flicker Typical Light Level Modulation	Ref. Application
<b>1 Flicker</b>	70%	33%	Candle Flame Brighter
<b>2 Flicker</b>	54%	29%	Candle Flame Dimmer
<b>3 Flicker</b>	79%	16%	Softer Candle Fire flame
<b>4 Flicker</b>	57%	31%	Average Fire Flame
<b>5 Flicker</b>	73%	23%	Moderate Fire flame
<b>6 Flicker</b>	68%	42%	Rough Fire Flame
<b>7 static dimming</b>	10% to 95% Ref.	N/A	dimming

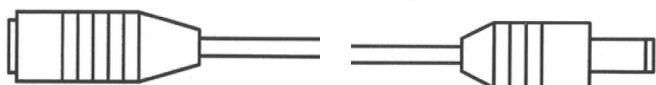
**Mechanical Characteristics and Notes:**

- 1) The yellow body measures a nominal 3.0" length, 0.6" wide and 0.25" thickness. The overall end to end length of the entire body and cable assembly is 13.0" Ref. The body cover color of the FFC1 is yellow, cables are black.
- 2) Power connection is via DC barrel connectors 2.1mm X 5.5mm, with 5.5" cable length. Input = Jack output = Plug.
- 3) Module body and cables are black in color. For installation in moisture protected environment. Rohs, PB-Lead free
- 4) The control retains the last settings when power to the unit is cycled On and Off.
- 5) The PWM frequency of the control is 240 Hz nominal. For video applications this may cause video banding.

**Connector style**

Jack 2.1mm X 5.5mm

Plug 2.1mm X 5.5mm



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