

LEC Product Guide v2, December 2013.
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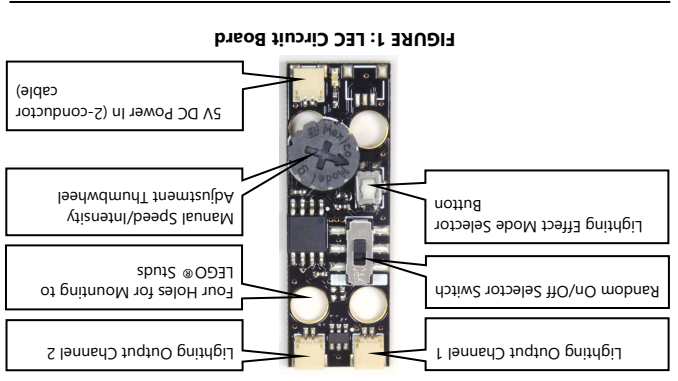


FIGURE 1: LEC Circuit Board

Changing Lighting Effects: Press and quickly release the Lighting Effect Mode Selector Button to change lighting effects. The LEC will cycle through its 12 effects: On/Off with Selectable Dimming, Flicker, Pulse, Glimmer, Jet Engines, Airport Runway-Style Pulsing, Flash, Single Strobe, Double Strobe, BlinkyLights, Laser Cannon, and Cannon with Explosion. If you accidentally press the button for longer than three seconds, the LEC will enter PROGRAM mode (press again for at least three seconds to exit PROGRAM mode).

Adjusting the Speed/Intensity of Lighting Effects: Turn the thumbwheel to change the speed or intensity of the active lighting effect. Each effect uses the thumbwheel differently, so experiment to get the exact effect you want. If the thumbwheel is difficult to turn at first, turn it fully back and forth several times—the wheel will loosen up and become easier to turn.

Enabling Random On/Off Mode: Turn the Random On/Off Selector Switch to the UP position to enable the LEC's random on/off effect. This applies to all effects except the Laser Cannon and Cannon with Explosion effects. When the switch is UP, the selected effect will turn on and off at random intervals. Note that connected lights will initially start from an "off" state after the Random On/Off Selector Switch is turned to the UP position.

See Figure 1 on the facing page for a summary of the LEC's controls and features.

LEC OPERATION:

NOTE: The LEC is a sensitive electronic circuit. It should be handled with care, and it should be protected from static electricity and moisture. The LEC is for indoor use only. When not using the LEC, keep it stored in its re-sealable anti-static bag. The LEC will become damaged if exposed to static electricity or moisture.

INSTRUCTIONS

ADVANCED OPERATION (PROGRAM MODE):

You can change advanced LEC functions by entering PROGRAM mode. To enter PROGRAM mode, make sure you have at least one light connected to each output channel. Press and HOLD the Lighting Effect Mode Selector Button for at least three seconds. Both output channels should blink three times to indicate you have entered PROGRAM mode. To exit PROGRAM mode, press and HOLD the Lighting Effect Mode Selector button again for at least three seconds. Both output channels should again blink three times, indicating you have left PROGRAM mode. PROGRAM mode settings are retained even when power is removed from the LEC.

Changing Maximum Brightness: Make sure the Random On/Off Selector Switch is in the DOWN position. Enter PROGRAM mode as instructed above. Use the thumbwheel to set maximum brightness for both channels. When you have exited PROGRAM mode (as instructed above), the LEC will return to its last active lighting effect. The LEC ships from the factory with both output channels set at maximum brightness.

Changing the On/Off Interval: Make sure the Random On/Off Selector Switch is in the UP position. Enter PROGRAM mode as instructed above. Both channels should blink repeatedly 0-10 times in sequence. Use the thumbwheel to select an on/off duration—both output channels will change their number of blinks. As a rule of thumb, 10 times blinking equals 30 minutes, which means the effect may be on for up to 30 minutes, followed by up to 30 minutes of being off (both on and off durations are selected randomly each time a new on/off cycle begins). Anything less than 10 times blinking will result in random on/off times less than 30 minutes (each additional sequence blink adds 3 minutes to the possible on/off times). When you have exited PROGRAM mode (as instructed above), the LEC will begin a new random on/off sequence for the effect. Note that the on/off functionality does not apply to the Laser Cannon or Cannon with Explosion effects. The LEC ships from the factory with a random on/off duration of 24 minutes.

LEC FEATURES: The Brickstuff Single-Function Lighting Effect Controller (LEC) allows you to add any of 12 lighting effects to your installations. Each LEC has two independent channels of operation, and each channel can power a large number of lights. The LEC also features manual brightness/speed adjustment (depending on the lighting effect selected) as well as a random on/off feature (depending on effect) that will turn the effect on and off at user-selectable random intervals. Figure 1 shows the LEC circuit board and its controls.



**Single-Function, Two Channel
Lighting Effect Controller (LEC)**

INSTRUCTIONS FOR USE

WARNING: This product contains small parts and sharp parts. This product is not a toy. It is not intended for children under 13 years of age.