

Flashlight Operation (side electronic switch)

10/30/2015 T.E.

The user interface is designed to be fast and simple with quick access to the 3 primary modes of lowest, highest and strobe. In any steady output mode, 1 click will turn the light OFF.

Summary of Features

- Simple 1 click ON, 1 click OFF, navigate to next and previous modes
- 1 to 6 modes can be configured and remembered (plus 1 more for an optional moon mode)
- Modes can be arranged for low to hi, or hi to low
- Multiple strobe and beacon modes can be accessed, total of 5 special modes (12.5 hz strobe, police strobe, bike strobe, 2 sec beacon, and 10 sec beacon)
- Mode memory can be enabled to quickly restore the last used mode setting, but not necessary or recommended
- Low Voltage Protection (LVP) – output is decreased starting at ~2.9v, shut off at ~2.8v
- Turbo timeout can be enabled/disabled, and the time be set
- When power is applied, 2 blinks indicate it's ready
- Lock-out feature for the side switch – enabled and disable by a special click sequence
- Battery status indicator – blink out the voltage level (ex: 3.7v would be 3 blinks, pause, then 7 blinks)
- Optional burn-in capability to use a power tail switch to change modes w/memory

Configuration Settings

1. 8 sets of modes to choose from, 1 to 6 output levels
2. Moonlight mode can be optionally added (enable/disable)
3. Set the mode order, default is low to hi, hi to low can be enabled
4. Enable or disable mode memory
5. Enable/disable turbo timeout and sets the length of time from 30 secs to 10 minutes

Summary of Normal Operations

- From OFF, a click goes to 1st mode, while a click&hold (~1/3 sec) goes to last mode
- When ON, a click goes to next mode, while a click&hold goes to the previous mode
- if paused in a mode (over 1.2 secs), the mode locks in and then a click will turn the light OFF
- If you are locked in a mode, a click&hold will still work and the lock-in cancels
- in any mode (including OFF), a long hold (over 1.1 sec) will turn the 1st Strobe ON
- When in Strobe, clicks without pausing will skip to the next special mode (strobe or beacon). The special mode navigations works just like normal modes: click&hold will go to the previous special mode, paused in a mode will lock it in

Battery Check

From OFF, do a click quickly followed by a click&hold and keep holding for 2.5 secs. This will engage Battery Check mode. The voltage reading of the cell will be blinked out continuously – 1 click will terminate the voltage reading. For example, a 3.7v reading will results in 3 blinks, short pause, then 7 blinks. This pattern will continue forever until a click terminates it.

Lock-Out Feature

Often a light will be carried in a pocket, bag or holster where the switch might be accidentally engaged. To avoid accidental activation, sometimes the tailcap can be loosened to break the battery connection. For lights that don't work that way, or another method preferred (avoid wear and tear on the threading), you can enter a special sequence to lock-out the light as follows:

- From OFF, 2 clicks in quick sequence followed quickly by a click&hold. The light will blink 4 quick times to acknowledge Lock-Out has been engaged, then the normal operation of the switch should be disabled
- To restore normal operation, do the same Lock-Out sequence (2 clicks by a click&hold). The 4 quick blinks should appear to acknowledge the action.

Configuration UI Operation

The Configuration UI settings is activated from OFF or ON by click& hold for at least 2.5 seconds. The light will display a strobe, but if you continue to hold, strobe will stop and the light will blink 2 times to indicate the Configuration UI mode is active. There are 5 settings: mode group selection, moon mode enable/disable, lo->hi/hi->lo setting, mode memory enable/disable, and turbo timeout setting. You can change or leave any of these settings – there's no need to set each one. Clicks choose the setting, and each click will blink the light to acknowledge the click. If no clicks are entered in 4 seconds, the light jumps to the next configuration setting indicated by 2 blinks. You can bypass the timeout by doing a click&hold.

So the first setting, choose your mode set from the list below by clicking the Mode Set Order # (1 to 8 clicks)

Mode Sets

Mode Set Order	Mode Count	Mode Percentages	Notes
1	1	full only	(full is always max FET, no 7135)
2	2	10-full	max 7135, max FET
3	3	5-35-full	5=1/2 7135, 35=mixed
4	4	2-10-40-full	10=max 7135, 40=mixed
5	5	2-5-10-40-full	10=max 7135, 40=mixed
6	6	TK BLF A6 7 mode	6 well evenly spread
7	3	10-35-full	10=max 7135, 35=mixed
8	4	TK BLF A6 4 mode	4 well evenly spread

The 2nd setting is for moon mode: 1 click disables it, 2 clicks enables it.

The 3rd setting is for mode ordering: 1 click sets lo->hi, 2 clicks sets ho->lo.

The 4th setting is for mode memory: 1 clicks disables it, 2 clicks enable it.

The 5th and last setting is for turbo timeout, where: 1 click disabled is, 2=30 secs, 3=60 secs, 4=90 secs, 5=2 mins, 6=3 mins, 7=5 mins, 8=10 mins