

# LEDsmart<sup>+</sup>

Rotary Dimmer with built in on / off switch and multi-way control



## Dimmer Setup

The LEDsmart<sup>+</sup> rotary dimmer has a number of useful functions which can easily be set up by entering setup mode and following four easy steps.

It is recommended that the **MINIMUM BRIGHTNESS** is always set up. The other settings are optional, depending on the dimmer application. To set the minimum brightness now, go to the next page.

## Dimmer Setup Functions

Function	See Part
Entering <b>Setup</b> Mode	A
Setting <b>Minimum Brightness</b>	B
Setting <b>Maximum Brightness</b>	C
Setting <b>the Kick Start Feature</b>	D
Setting <b>Off State LED Feature</b>	E
Setting <b>Separate Switch Mode</b>	F
Setting <b>Toggle / Memory Dimmer</b>	G
Setting <b>MultiMate™ Mode</b>	H
Factory Defaults <b>Reset</b>	I

### A: Entering Setup Mode

Before starting to setup the dimmer, the rotary dial should be removed by pulling it off the shaft. This allows the white LED indicator to be easily seen during setup.

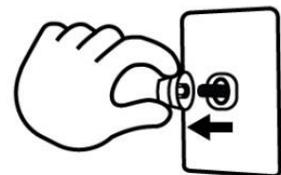
If the dimmer has been powered up for **LESS THAN 15 MINUTES** see **A1**.

If the dimmer has been powered up for **MORE THAN 15 MINUTES** see **A2**.



Once in Setup Mode, options are selected by a series of 'clicks' of the dimmer rotary shaft. Each 'click' should be within 1 second of the previous click.

### Remove dial!



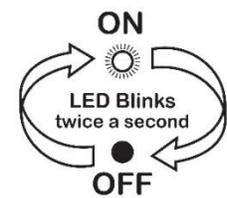
**A1: Dimmer has been powered up via mains 240Vac for LESS THAN 15 MINUTES**

Step 1 Press and hold the dimmer rotary shaft for 10 seconds  
 Note: Connected lights will dim up or down, this is normal



Step 2 The white LED Indicators will blink ON/OFF twice per second. This indicates that the dimmer is now in Setup Mode

Note: If more than one LEDsmart<sup>+</sup> device is connected in parallel, all these devices will now enter setup mode. The blink ON/OFF will also be see on all other LEDsmart<sup>+</sup> devices connected in parallel



In the unlikely event that other LEDsmart+ devices connected in parallel do not enter setup, exit and try again.

Step 3 The dimmer is ready for the settings to be adjusted as required. Go to the relevant setup function instructions



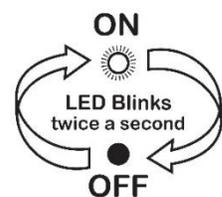
**A2: Dimmer has been powered up via mains 240Vac for MORE THAN 15 MINUTES**

Step 1 Press and hold the dimmer rotary shaft for 30 seconds  
 Note: This resets the Setup Entry time back to 10 seconds (for the next 30 minutes)  
 Note: Connected lights will dim up or down, this is normal



Step 2 The white LED Indicators will blink ON/OFF twice per second. This indicates that the dimmer is now in Setup Mode

Note: If more than one LEDsmart<sup>+</sup> device is connected in parallel (see pages 5-7), all these devices will now enter setup mode. The blink ON/OFF will also be see on all other LEDsmart<sup>+</sup> devices connected in parallel



In the unlikely event that other LEDsmart+ devices connected in parallel do not enter setup, exit and try again.

Step 3 The dimmer is ready for the settings to be adjusted as required. Go to the relevant setup function instructions



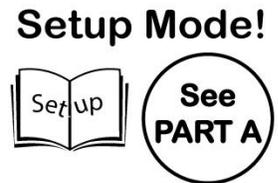
**B: Setting Minimum Brightness**

The minimum brightness level provided by the dimmer can be set to suit specific lamps and/or customer requirements.

For the majority of lamps a minimum level as low as 0% can be set if required. However, some lamps can become unstable at low dimming levels, in particular CFL's.

If lamps become unstable at low dimming levels, they typically flicker or pulse on/off. The dimmer allows the minimum brightness to be set to a level above the point at which the lamp flickers/pulses.

Step 1 Enter into the dimmer Setup Mode - See PART A



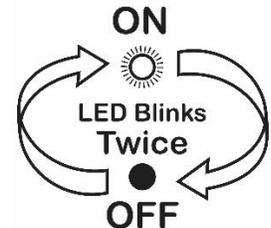
Step 2 Click the dimmer rotary shaft twice



Step 3 LED will blink 2 times

Note: To cancel/exit do nothing for 30 seconds

Note: If more than one dimmer is connected to the same load, all dimmers connected to this load will now blink 2 times



Step 4 Adjust dial to required MINIMUM brightness level

Note: If more than one dimmer is connected in parallel (see pages 5-7), wait for 3 seconds for the other connected dimmer to learn the new minimum level

Note: To cancel/exit do nothing for 30 seconds



Step 5 Click once to save & exit

Note: If more than one LEDsmart<sup>+</sup> device is connected in parallel, the minimum brightness levels **only needs to be set in one device**. The setting is automatically saved to all other devices connected in parallel



In the unlikely event that other LEDsmart+ devices connected in parallel do not enter setup, exit and try again.

**C: Setting Maximum Brightness**

The maximum brightness level provided by the dimmer can be set to suit customer requirements.

Note that when lamps are dimmed near to full brightness, it is difficult to see changes in dimming level. Therefore, when setting up maximum brightness, it is recommended that the lamp is slowly dimmed up to a point where no further changes in brightness can be seen, and the maximum level set at this point.

Step 1 Enter into the dimmer Setup Mode - See PART A

Step 2 Click the dimmer rotary shaft three times

Step 3 LED will blink 3 times

Note: To cancel/exit do nothing for 30 seconds

Note: If more than one dimmer is connected to the same load, all dimmers connected to this load will now blink 3 times

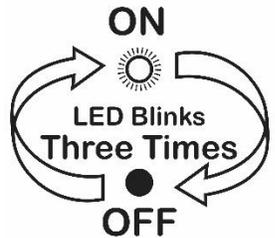
Step 4 Adjust dial to required maximum brightness level

Note: To cancel/exit do nothing for 30 seconds

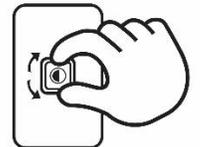
Step 5 Click once to save & exit

Note: If more than one LEDsmart<sup>+</sup> device is connected in parallel, the minimum brightness levels **only needs to be set in one device**. The setting is automatically saved to all other devices connected in parallel

**Setup Mode!**



**Adjust!**



In the unlikely event that other LEDsmart+ devices connected in parallel do not enter setup, exit and try again.

**D: Setting the Kick Start Feature**

The 'kick-start' feature is only required to be enabled when dimming loads such as compact fluorescent lamps. These lamps require the dimmer output to be set to 50% for 0.2 of a second when the lamp is turned on. This ensures the lamp strikes successfully. The result is a short bright 'blink' when a compact florescent lamp turns on.

**As the bright blink caused by the kick start feature can be undesirable for the user, it is highly recommended that this feature remains disabled (the default) when using LED's and other light sources which do not require the kick-start to operate.**

By default Kick Start Mode is **disabled**. To **enable** Kick Start Mode, follow the steps below.

Step 1 Enter into the dimmer Setup Mode - See PART A



Step 2 Click the dimmer rotary shaft four times

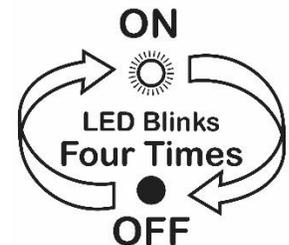


Step 3 LED will blink 4 times  
If Kick start is currently Disabled, lamp(s) connected to the dimmer will now turn OFF

If Kick start is currently Enabled, lamp(s) connected to the dimmer will now turn ON

Note: To cancel/exit do nothing for 30 seconds

Note: If more than one dimmer is connected to the same load, all dimmers connected to this load will now blink 4 times



Step 4 To Enable Kick Start Mode  
Adjust the dial Clockwise until lamp(s) turn ON

To Disable Kick Start Mode (Default)  
Adjust dial Anti-Clockwise until lamp(s) turn OFF

Note: To cancel/exit do nothing for 30 seconds



Step 5 Click once to save & exit

Note: If more than one LEDsmart<sup>+</sup> device is connected in parallel, the minimum brightness levels **only needs to be set in one device**. The setting is automatically saved to all other devices connected in parallel



In the unlikely event that other LEDsmart<sup>+</sup> devices connected in parallel do not enter setup, exit and try again.

**E: Setting Off State Indication**

When the dimmer is switched off, the white LED indicators in the dimmer can be set to glow on or turn off.

By Default, the white LED indicators are set to glow on when the dimmer is turned off.

To set the LED indicators to turn off when the dimmer is off, follow the steps below.

Step 1 Enter into the dimmer Setup Mode - See PART A

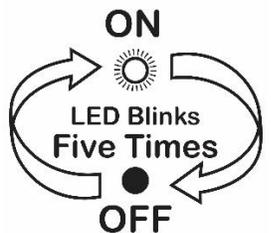


Step 2 Click the dimmer rotary shaft five times



Step 3 LED will blink 5 times

Note: To cancel/exit do nothing for 30 seconds



Step 4 To set Indicator to glow on when dimmer is off  
Adjust the dial Clockwise until the lamp(s) turns ON

To set Indicator to turn off when dimmer is off  
Adjust the dial Anti-Clockwise until the lamp(s) turns OFF

Note: To cancel/exit do nothing for 30 seconds



Step 5 Click once to save & exit



**F: Setting Separate Switch Mode**

The dimmer is designed to operate as a combined switch and dimmer, taking up only one gang in a wall plate.

However, some lamps (for example, non-dimmable CFL's) can flicker when switched OFF by pressing the rotary dial. In these cases it is recommended that the dimmer is used in 'Separate Switch Mode' and combined with a standard mechanical switch. Note this also applies where two way switching operation is required.

When used in the Separate Switch Mode, the dimmer turn-on level needs to be set. This is covered in Step 4 below.

Step 1 Enter into the dimmer Setup Mode - See PART A

**Setup Mode!**

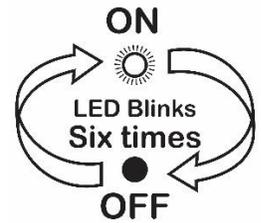


Step 2 Click the dimmer rotary shaft six times



Step 3 LED will blink 6 times

Note: To cancel/exit do nothing for 30 seconds



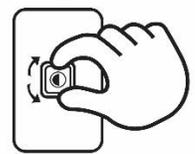
Step 4 To Enable Separate Switch Mode  
Adjust the dial Clockwise until the lamp(s) turn ON

Note the level the lamp(s) are adjusted to during this step will be the turn on level when the separate switch is used during normal operation

To Disable Separate Switch Mode  
Adjust the dial Anti-clockwise until the lamp(s) turn OFF (or pulses ON/OFF)

Note: To cancel/exit do nothing for 30 seconds

**Adjust!**



Step 5 Click once to save & exit



**Note for Separate Switch Mode**

- Clicking the rotary dial will toggle between the minimum level and the previous level
- 'Wake up' mode cannot be used
- LED indicators are always off when the separate switch is off
- The dimmer does not recall the previously set dimming level when switched back on. It turns back on to level set in step 4 above.

**G: Setting Toggle / Memory**

Step 1 Enter into the dimmer Setup Mode - See PART A

**Setup Mode!**

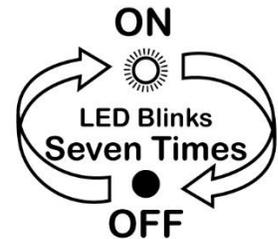


Step 2 Click the dimmer rotary shaft 7 times



Step 3 LED will blink 7 times

- a. If the memory dimmer function is currently Disabled, lamp(s) connected to the dimmer will now turn OFF
- b. If the memory dimmer function is currently Enabled, lamps(s) connected to the dimmer will now turn ON



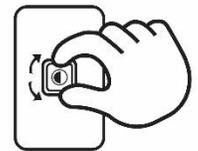
Note: To cancel/exit do nothing for 30 seconds

Note: If more than one dimmer is connected to the same load, all dimmers connected to this load will now blink 7 times

Step 4 To Enable the memory dimmer adjust the dial Clockwise until the lamp(s) turns ON

To Disable the memory dimmer (Default) adjust the dial Anti-clockwise until the lamp(s) turns OFF

**Adjust!**



Note: To cancel/exit do nothing for 30 seconds

Step 5 Click once to save & exit

Note: If more than one LEDsmart<sup>+</sup> device is connected in parallel, the minimum brightness levels **only needs to be set in one device**. The setting is automatically saved to all other devices connected in parallel



In the unlikely event that other LEDsmart+ devices connected in parallel do not enter setup, exit and try again.

**H: Setting MultiMate™ Dimmer Mode**

Step 1 Enter into the dimmer Setup Mode - See PART A

**Setup Mode!**

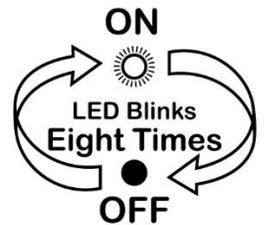


Step 2 Click the dimmer rotary shaft 8 times



Step 3 LED will blink 8 times

- a. If the MultiMate™ function is currently Disabled, lamp(s) connected to the dimmer will now turn OFF
- b. If the MultiMate™ function is currently Enabled, lamps(s) connected to the dimmer will now turn ON

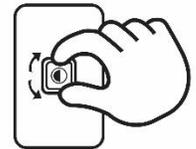


Note: To cancel/exit do nothing for 30 seconds

Step 4 To Enable MultiMate™ (Default) adjust the dial Clockwise or push-and-hold the button until the lamp(s) turns ON

To Disable MultiMate™ adjust the dial Anti-clockwise or push-and-hold the button until the lamp(s) turns OFF

**Adjust!**



Note: To cancel/exit do nothing for 30 seconds

Step 5 Click once to save & exit



**I: Resetting to Factory Defaults**

Step 1 Enter into the dimmer Setup Mode - See PART A

**Setup Mode!**



Step 2 Click the dimmer rotary shaft ten times



Step 3 The dimmer will automatically exit Setup Mode once reset



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