



WS1D Wall Switch Dimmer Manual Configuration

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Scope

The PCS PulseWorx™ line of Wall Switch Dimmers has many useful options and features that allow you to customize its behavior to best suit the needs of your application. While all of these features can be configured using the UPStart setup tool (available for free on the PCS website www.pcslighting.com) some of the more important features can also be configured manually. This document is intended to give instructions on how to manually configure the following Wall Switch Dimmer features:

1. Enabling/Disabling Dimming
2. Setting the Top Rocker's Single-Tap Light Level
3. Setting the Default Fade Rate

Note: these manual configuration features are only available on Generation II PulseWorx™ Wall Switch Dimmer products.

Enabling/Disabling Dimming

All PCS PulseWorx™ Wall Switch Dimmers come from the factory with the ability to brighten and dim the lighting load to levels in between 0% and 100%. This “Dimming Enabled” feature may not be useful or desirable when controlling non-dimmable loads (like fluorescent lights, fan motors, etc.). Of course this can easily be enabled/disabled using the UPStart setup tool. However, this can also be configured manually, without a setup tool. Table 1 describes a simple manual procedure for enabling and disabling the “Dimming Enabled” feature.

Step	Operation	Result
1	Place the Wall Switch into Setup Mode by tapping either rocker switch 5 times quickly.	The Wall Switch will flash its lighting load once and its status LED will begin blinking green.
2	Either: 1) Tap the TOP rocker switch 3 times quickly to enable dimming OR 2) Tap the BOTTOM rocker switch 3 times quickly to disable dimming.	The Wall Switch will flash its lighting load once and its status LED will stop blinking.

Table 1: Procedure for Manually Enabling/Disabling Dimming

Setting the Top Rocker's Single-Tap Light Level

All PCS PulseWorx™ Wall Switch Dimmers come from the factory set to fade the lighting load to 100% whenever the top rocker switch is single-tapped. Furthermore, they will snap the lighting load to 100% whenever the top rocker switch is double-tapped. Some homeowners might prefer that the single-tap light level be set to something below 100%. Of course this can easily be configured to any light level percentage using the UPStart setup tool. However, this can also be configured manually, without a setup tool. Table 2 describes a simple manual procedure for setting the top rocker's single-tap light level to any value between 0% and 100%.

Step	Operation	Result
1	Place the Wall Switch into Setup Mode by tapping either rocker switch 5 times quickly.	The Wall Switch will flash its lighting load once and its status LED will begin blinking green.
2	Adjust the current Light Level to the desired percentage by pressing and holding the TOP rocker switch to increase the level and pressing and holding the BOTTOM rocker switch to decrease the level.	The Wall Switch will adjust its lighting load to the desired lighting level.
3	Tap the TOP rocker switch 4 times quickly to store the current light level as the new Top Rocker Single-Tap Light Level.	The Wall Switch will flash its lighting load once and its status LED will stop blinking.

Table 2: Procedure for Manually Setting the Top Rocker Single-Click Light Level

Setting the Default Fade Rate

All PCS PulseWorx™ Wall Switch Dimmers come from the factory set to fade the lighting load at a default fade rate of 3.3 seconds. Some homeowners might prefer that the default fade rate be quicker or slower. Of course this can easily be configured to any of 16 different fade rates using the UPStart setup tool. However, this can also be configured manually, without a setup tool. Table 3 describes a simple manual procedure for setting the Default Fade rate.

Step	Operation	Result
1	Place the Wall Switch into Setup Mode by tapping either rocker switch 5 times quickly.	The Wall Switch will flash its lighting load once and its status LED will begin blinking green.
2	Adjust the current Light Level to the desired level by pressing and holding the TOP rocker switch to increase the level and pressing and holding the BOTTOM rocker switch to decrease the level.	The Wall Switch will adjust its lighting load to the desired lighting level.
3	Tap the BOTTOM rocker switch 4 times quickly to store the current light level as the new Default Fade Rate.	The Wall Switch will flash its lighting load once and its status LED will stop blinking.

Table 3: Procedure for Manually Setting the Default Fade Rate

Note 1: The desired fade rate can be selected by adjusting the light level within the ranges specified in Table 4 below.

Light Level Range	Selected Fade Rate
0% - 14%	0.8 seconds
15% - 30%	1.6 seconds
31% - 46%	3.3 seconds
47% - 62%	5.0 seconds
63% - 78%	6.6 seconds
79% - 95%	10 seconds
96% - 100%	20 seconds

Table 4: Light Level to Fade Rate Conversion Table



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