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LEDsmart+™ Push Button Switch

For LED lighting with built in multi-way control



Wall plate
not included

Range

MMSW / PB



Overview

Designed in Australia to provide optimised switching of LED based lamps and drivers, this high quality, two-wire electronic switch mechanism can be connected in parallel to other LEDsmart+ devices to provide a simple solution to multi-way control.

As part of the LEDsmart+ range, this electronic switch enables all LEDsmart+ dimmers, switches and timers to be combined onto the same wall plate, providing the user with a consistent look and feel.

Features

Suitable for one-way, two-way, three-way and multi-way switching

MultiMate™ technology allows multi-way switching with no extra wires

Incorporates filtering to reduce load brightness variation under conditions of line voltage ripple signal injection

Fully programmable

Quiet, soft press button - no harsh click

White LED, illuminated bezel







Optional soft start switch on

Flush and rocker style button options

Simple 3-step programming



Specifications

| Compatible Load Types | | | |
|---|---------------------------------|--------------|--|
| Load Symbol | Load Type | Maximum Load | Notes |
|  | LED Lamps | 400W | Maximum permitted number of drivers is 400W divided by driver nameplate power rating. Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power-factor result when connected to switch. |
|  | Electronic Transformers | 400W | |
|  | Standard Iron-Core Transformers | 250W | Due to variety of transformer designs, maximum LV lighting load is also dependent on transformer efficiency. |
|  | Toroidal Iron-Core Transformers | 300W | |
|  | Incandescent | 350W | |
|  | CFLs | 400W | Due to variety of CFL designs, maximum number is make/model dependant. |

Multi-gang de-rating

In applications where multiple devices are installed in a multi-gang plate, a de-rating factor is applied to the maximum load as follows

| Number of devices per plate | De-rating factor |
|-----------------------------|------------------|
| 1 | No de-rating |
| 2 | 0.85 |
| 3 | 0.70 |
| 4 | 0.55 |
| 5 | 0.40 |
| 6 | 0.25 |

De-rating example

Two switches installed in a wall plate. The maximum LED load which can be connected to each switch = $400W \times 0.85 = 340W$ per switch

Incompatible Load types

Ceiling Sweep Fans and Exhaust fans

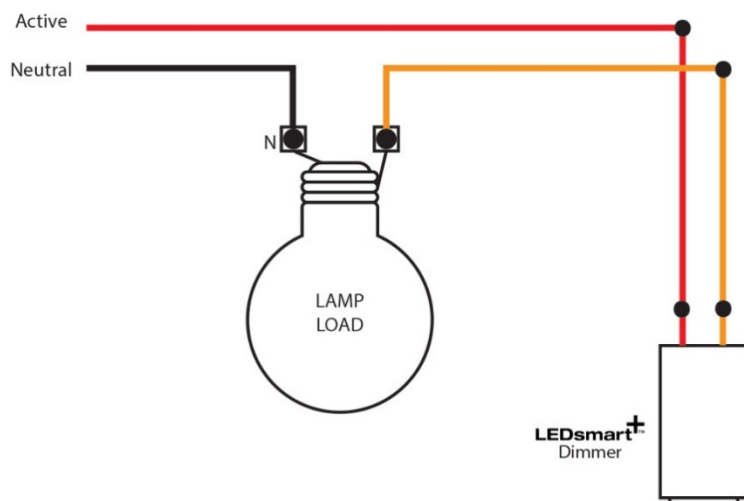
| Electrical Specifications | |
|---|---|
| Nominal Line Voltage Amplitude Range | 220-240Vac |
| Line Voltage Frequency | 50Hz Nominal (47-53Hz) |
| Rated Load | Refer Compatible Loads |
| Minimum Load | 1W |
| Maximum cable distance from any LEDsmart+ device to the parallel junction point | 50m (for example, two LEDsmart+ devices can be separated by up to 100m provided that the maximum distance from the furthest device to the parallel junction point is no more than 50m). |



Wiring for one-way dimming and switching

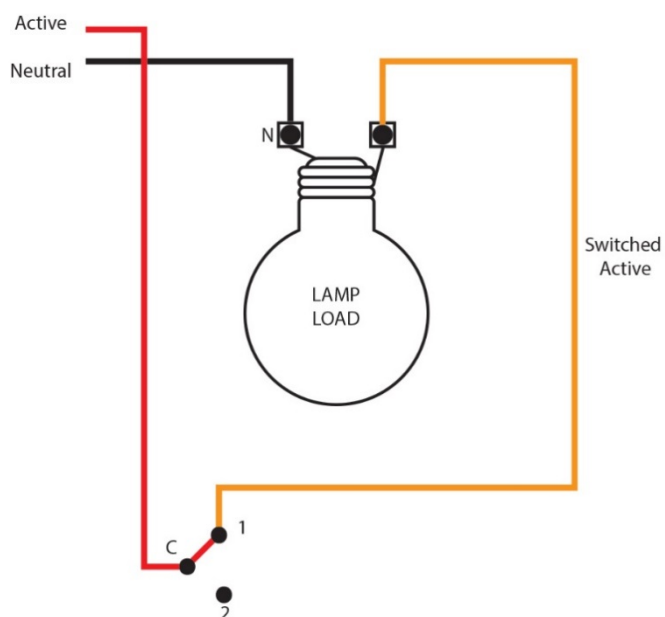
The dimmer has a built in tap on / tap off switch. Therefore, to provide both dimming and on/off control, no separate switch is required.

New Installation – one-way dimming and switching

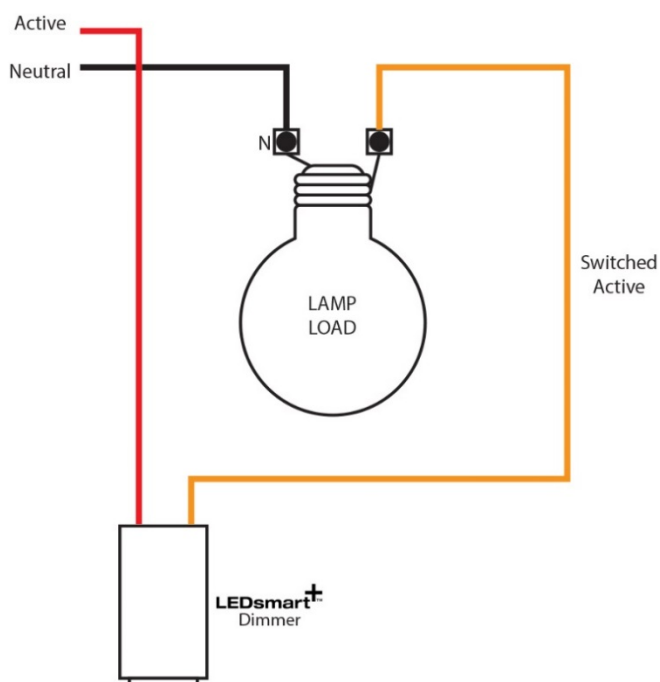


Replacing existing one-way switch with one-way switching/dimming

Existing one-way switching



Replacement one way dimming/switching

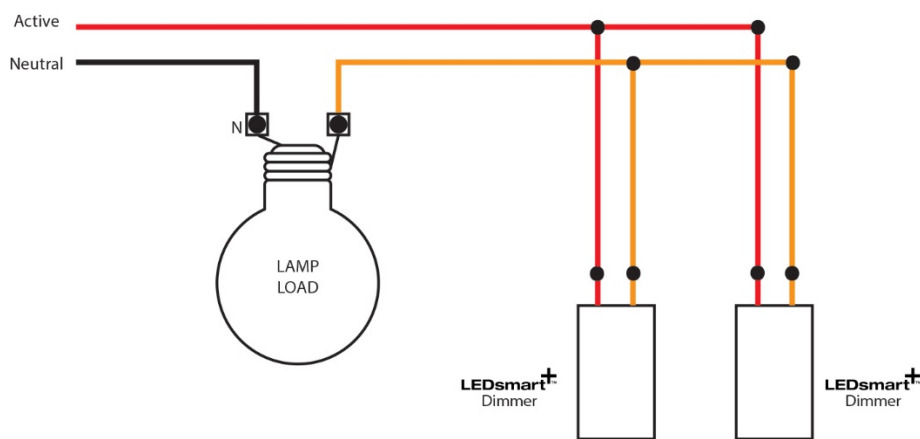




Wiring for two-way dimming and switching

To achieve two-way dimming and switching using LEDsmart⁺ dimmers, the two dimmers are connected in parallel. Note that the dimmers have an integrated switch, therefore no separate switches or additional strappers are required for two-way on/off control.

New Installation – two-way dimming and switching

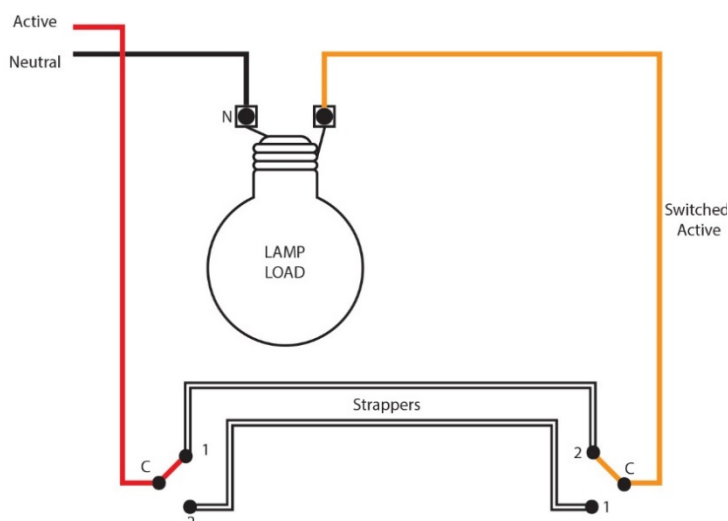


Two-way dimming and switching using LEDsmart⁺ dimmers. Note the two-wire dimmers are simply wired in parallel.

Replacing existing two-way switching with two-way dimming/switching

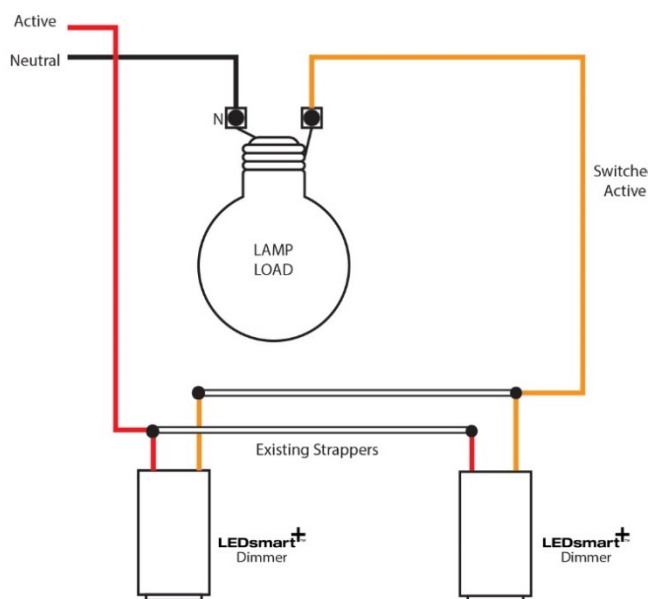
When replacing existing two-way switching with two-way dimming/switching using LEDsmart⁺, the existing two-way 'strapper' wires can be re-used. No new wiring is required. See the wiring diagrams below.

Existing two-way switching



Traditional two-way switching using standard rocker switch mechanisms and strappers between the switches.

Replacement two-way dimming/switching



Rocker switches replaced with LEDsmart⁺ dimmers using the existing strapper wires. No new wiring required.

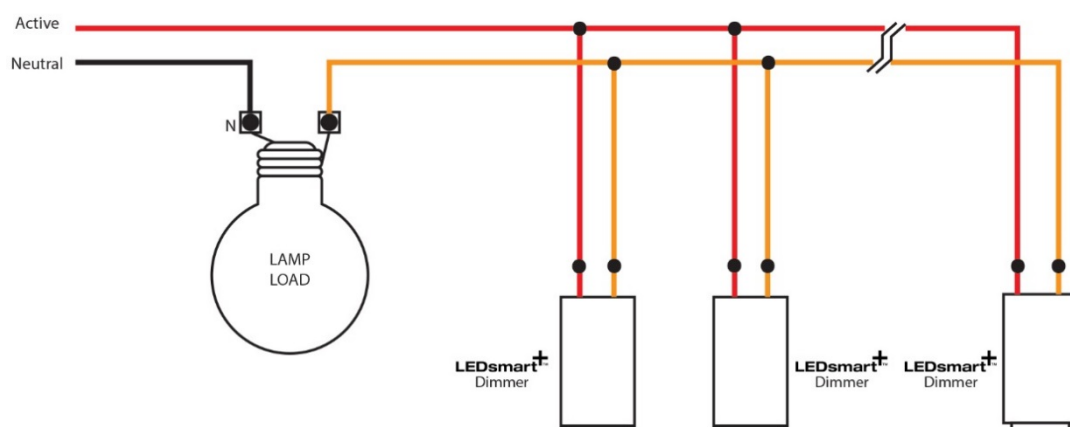


Wiring for multi-way (three-way or more) dimming and switching

To achieve multi-way dimming and switching using LEDsmart⁺ dimmers, the required number of dimmers can be connected in parallel. Note that each LEDsmart⁺ dimmer has an integrated switch, therefore no separate switches or additional strappers are required to provide multi-way dimming and on/off control.

The diagram below shows the required wiring for three-way dimming and switching using LEDsmart⁺ dimmers. If more than three-way control is required, further LEDsmart⁺ devices are simply wired in parallel.

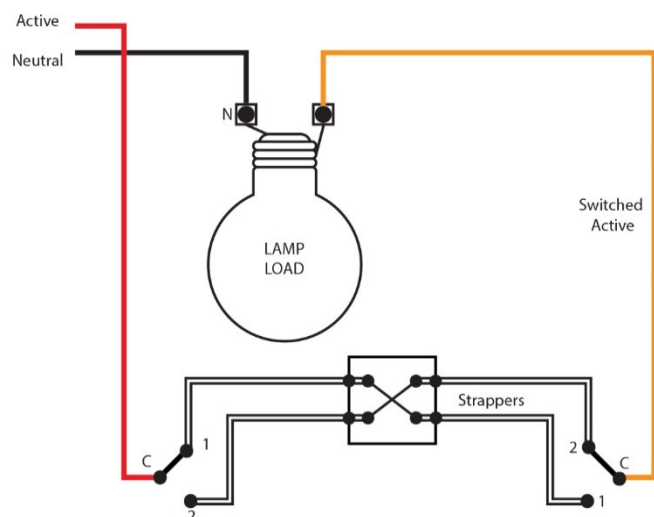
New Installation – multi-way (three-way or more) dimming/switching



Three-way dimming and switching using LEDsmart⁺ dimmers. Note that each two-wire LEDsmart⁺ dimmer is simply wired in parallel.

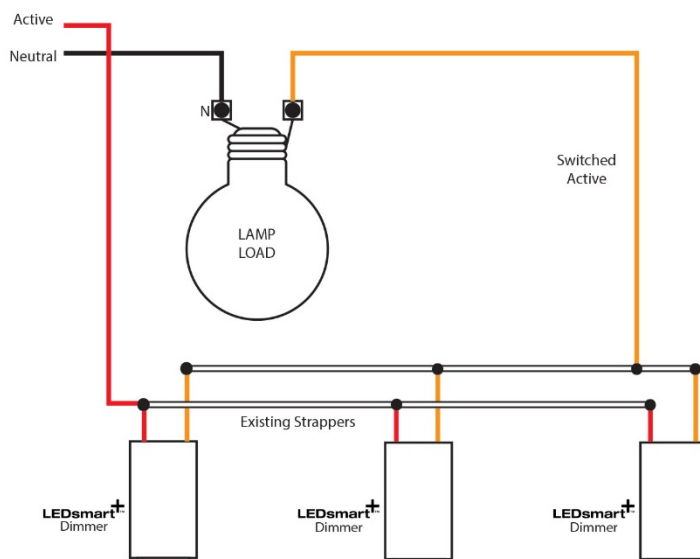
Replacing existing multi-way switching with multi-way dimming and switching

Existing three-way switching



Traditional three-way switching using two rocker switches and one intermediate switch, with strappers between the switches.

Replacement three-way dimming/switching



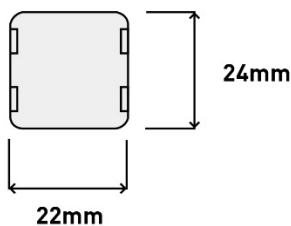
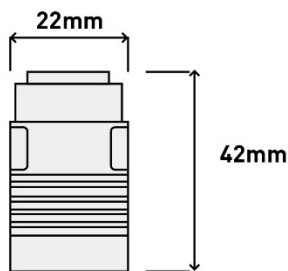
Rocker switches and intermediate switch replaced with LEDsmart⁺ dimmers. The existing strappers are used to connect the dimmers in parallel. No new wiring is required.



LEDsmart⁺™ Push Button Switch

For LED lighting with built in multi-way control

Dimensions



Approvals & Compliance

IP20  

CONTACT INFORMATION

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