LEDsmart+™ Push Button Hour Timer

Programmable between ¼ hour and 7 ½ hours with built in multi-way control

www.glg.lighting





Wall
plate not included

Range MMTH / PB

Powered by MultiMate TECHNOLOGY

Overview

Designed in Australia, this electronic timer will automatically switch lighting off after the timeout period programmed by the installer.

This high quality, two-wire timer can be connected in parallel to other LEDsmart+ devices to provide a simple solution to multi-way control.

Features

Programmable between ¼ hour and 7½ hours, in ¼ hour steps

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

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

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

Suitable for both retrofit and new installations

Active only 'two wire' connection - no neutral required

Override feature to stop the lights turning off automatically

Advanced warning feature to dim lighting to 50% level for 5 minutes after time out

Mode to convert from an hour timer to a minute timer

Programmable maximum level and off state indicator

Simple 3-step timer interval setting

Flush and rocker style button options

Quiet, soft press button – no harsh click

1W minimum load



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Specifications

Compatible Load Types			
Load Symbol	**Load Type**	**Maximum Load**	**Notes**
	LED Lamps	400W	The LED driver must be dimmable. 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 timer.
	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 timers installed in a wall plate. The maximum LED load which can be connected to each timer = 400W x 0.85 = 340W per timer

Incompatible Load types

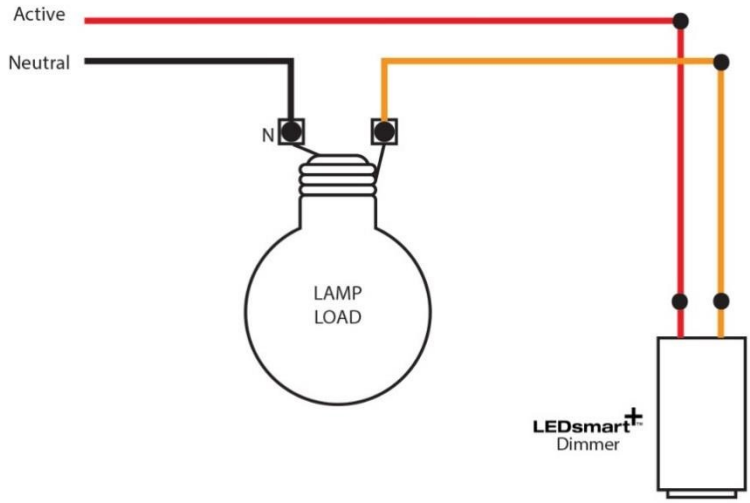
Ceiling Sweep Fans and Exhaust fans

Nominal Line Voltage Amplitude Range	
Nominal Line Voltage Amplitude Range	220-240Vac
Line Voltage Frequency	50Hz Nominal (47-53Hz)
Default time out	½ hour
Rated Load	Refer Compatible Loads
Minimum Load	1W
Maximum cable distance from any LEDsmart+ device to the parallel junction point	50m (for example, two dimmers could be separated by up to 100m provided that the maximum distance from the furthest dimmer to the parallel junction point is no more than 50m)

Wiring for one-way dimming and switching

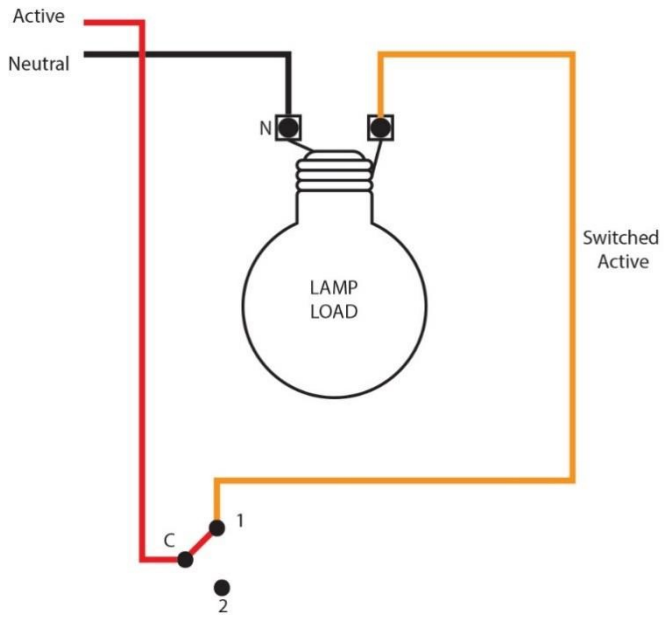
The dimmer has a built in tap on / tap off switch. Therefore, to provide both dimming and on/off control, no separate switch is required.

New Installation – one-way dimming and switching

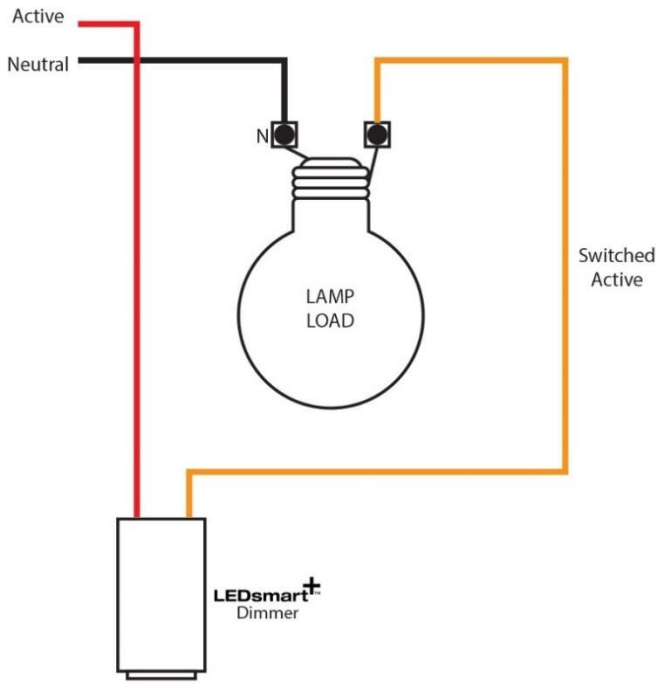


Replacing existing one-way switch with one-way switching/dimming

Existing one-way switching



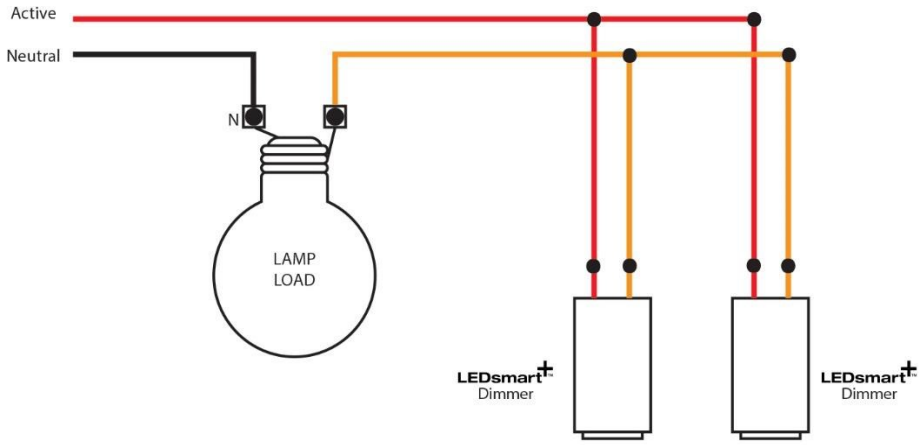
Replacement one way dimming/switching



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

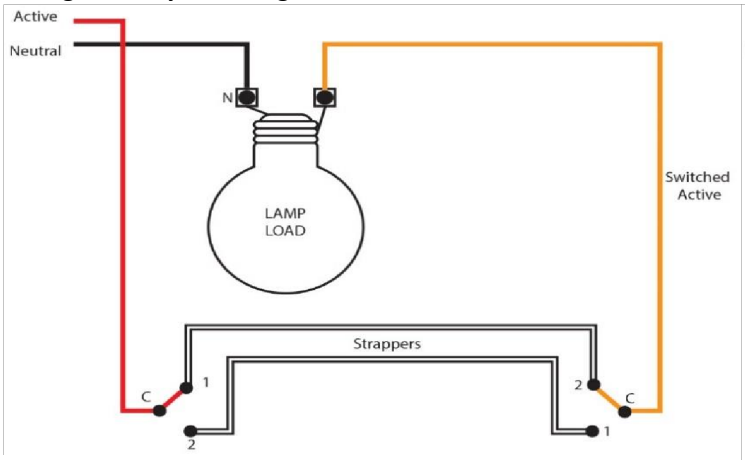


Two-way dimming and switching using LEDsmart+ dimmers. Note the two-wire dimmers are simply wired in parallel.

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

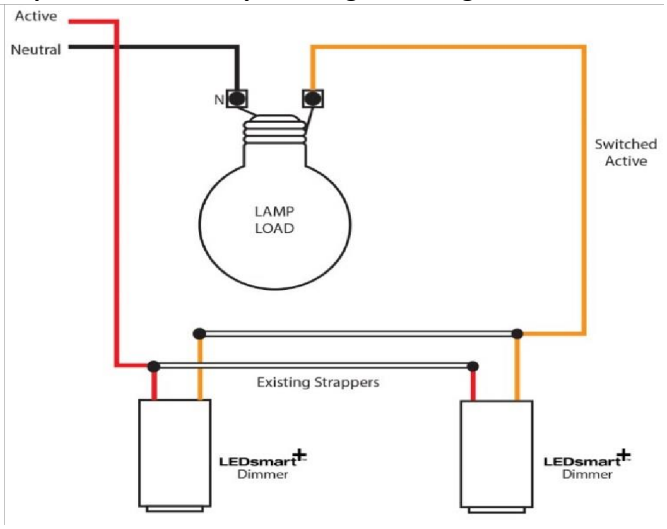
When replacing existing two-way switching with two-way dimming/switching using LEDsmart+, the existing two-way 'strapper' wires can be re-used. No new wiring is required. See the wiring diagrams below.

Existing two-way switching



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

Replacement two-way dimming/switching



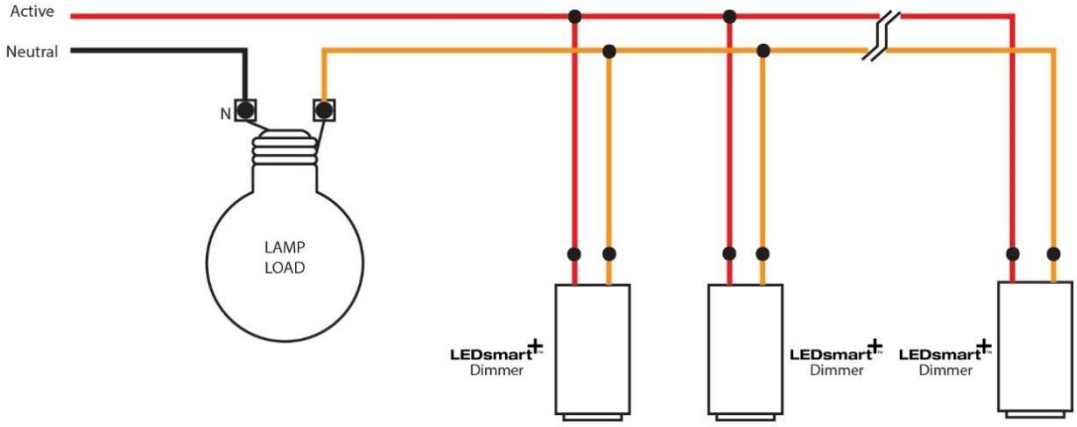
Rocker switches replaced with LEDsmart+ dimmers using the existing strapper wires. No new wiring required.

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.

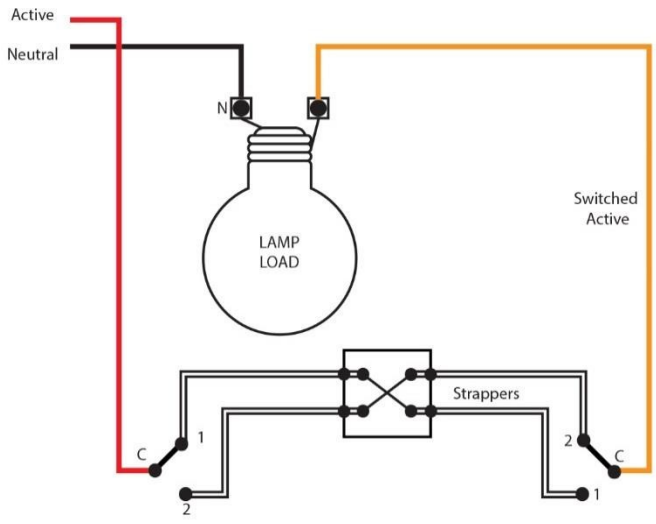
New Installation – multi-way (three-way or more) dimming/switching



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

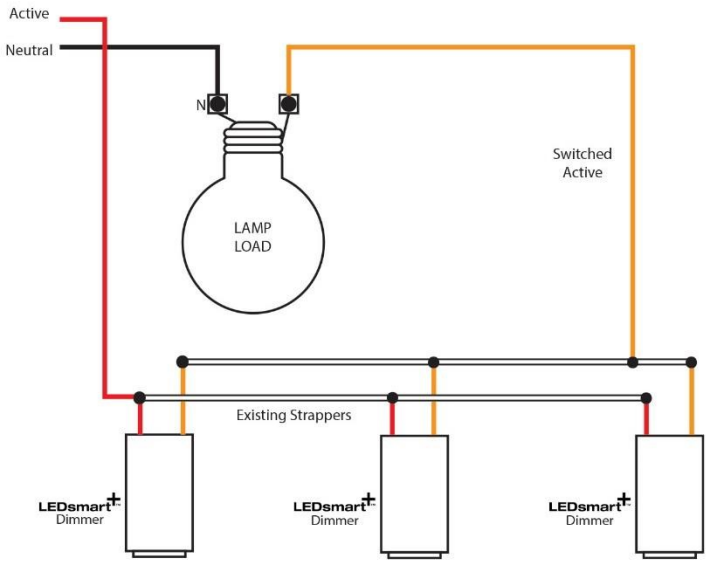
Replacing existing multi-way switching with multi-way dimming and switching

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



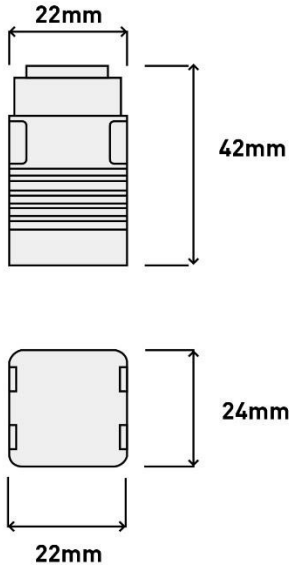
Rocker switches and intermediate switch replaced with LEDsmart+ dimmers. The existing strappers are used to connect the dimmers in parallel. No new wiring is required.



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Dimensions



Approvals & Compliance

IP20

CONTACT INFORMATION

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1.Information provided regarding Compatible and Incompatible Load Types is a guide only.
2.Additional device(s) may be required to deal with certain site issues due to unknown factors such as supply impedance, mains ripple and type of load. Please contact Pierlite for more information.
3.Pierlite will not be held responsible for any expenses associated with any additional device(s) required to fix unknown site conditions such as above.