DIGINET CONTROL SYSTEMS DATA SHEET



LEDsmart^{+™} Push Button Dimmer

With built in on / off switch and multiway control

www.glg.lighting



Wall plate not included



Powered by

Range	MMDM / PB		TECHNOLOGY		
Overview	Designed in Australia to provide optimised dimming of LED based lamps and drivers, this high quality, two-wire phase control dimmer can be connected in parallel to other LEDsmart+ devices to provide a simple solution to multi-way control.				
	Although optimised for LED lighting loads, the dimmer also provides excellent compatibility with other common lamp types such as incandescent lamps, 12V halogen (dichroic) lamps and dimmable CFL's.				
Features	Suitable for one-way, two- way, three-way and multi-way dimming MultiMate™ technology allows multi-way dimming / switching with no extra wires	Active only 'two wire' connection - no neutral required	Dim to OFF with most LED light sources		
		Push and hold to dim up/down	Kid's bedroom mode – double tap when on to dim down over 30 minutes		
		No separate switch required - built in tap on / tap off switch			
	Suitable for both retrofit and new installations	Quiet, soft press button – no harsh click	Wake up mode – double tap when off to dim up over 30 minutes		
	Programmable minimum level, maximum level, kick- start, off state indicator and more	Illuminated halo with interchangeable coloured bezels (blue/green/orange/clear)	Selectable fall-back LED Indicator level		
			1W minimum load		
	Incorporates filtering to reduce load brightness variation under conditions of line voltage ripple signal injection				

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Specifications

Compatible Load Types					
Load Symbol	Load Type	Maximum Load	Notes		
- ¥ -	Dimmable 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 dimmer.		
⊒ℤ⊗	Electronic Transformers	400W			
	Standard Iron-Core Transformers	250W	Due to variety of transformer designs, maximum LV lighting load is further dependent on transformer efficiency.		
ĴIØ	Toroidal Iron-Core Transformers	300W			
Ö	Incandescent	350W			
-	Dimmable CFLs	400W	Due to variety of CFL designs, maximum number is make/model dependant.		

Multi-gang de-rating

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

De-rating factor
No de-rating
0.85
0.70
0.55
0.40
0.25

De-rating example

Two Dimmers installed in a wall plate. The maximum LED load which can be connected to each dimmer = 400W x 0.85 = 340W per dimmer

Incompatible Load types

Ceiling Sweep Fans and Exhaust fans

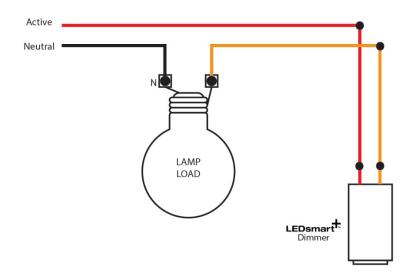
Electrical Specifications	
Nominal Line Voltage Amplitude Range	220-240Vac
Line Voltage Frequency	50Hz Nominal (47-53Hz)
Load Brightness Control Range	0% to 100% (typical for LED loads)
Rated Load	Refer Compatible Loads
Minimum Load	1W
Maximum cable distance from any LEDsmart+ device to the parallel junction point	50m (for example, two dimmers can 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

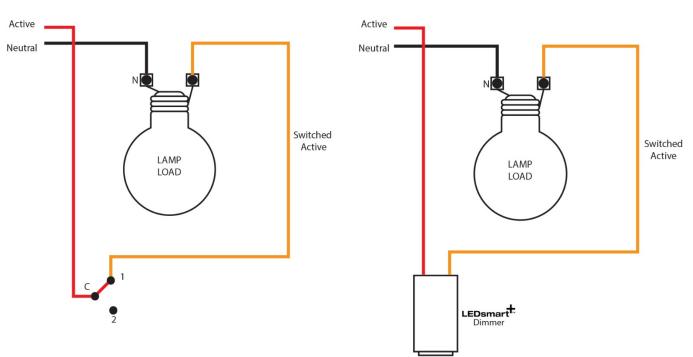
The dimmer has a built in tap on / tap off switch. Therefore, to provide both dimming and on/off control, no separate switch is required.

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

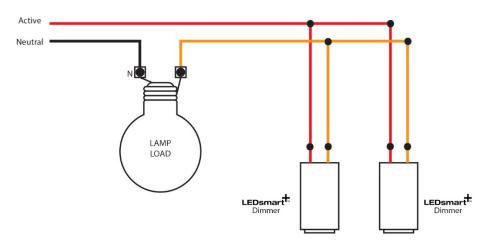
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Wiring for two-way dimming and switching

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

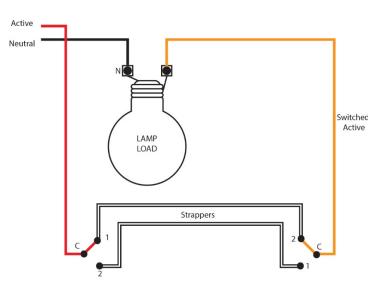


Two-way dimming and switching using LEDsmart⁺ dimmers. Note the two-wire dimmers are simply wired in parallel.

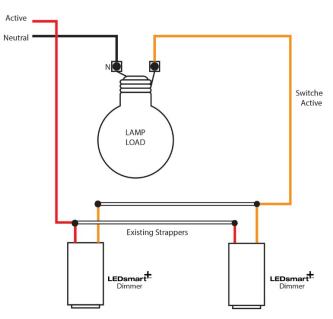
Replacing existing two-way switching with two-way dimming/switching

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



Replacement two-way dimming/switching



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

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

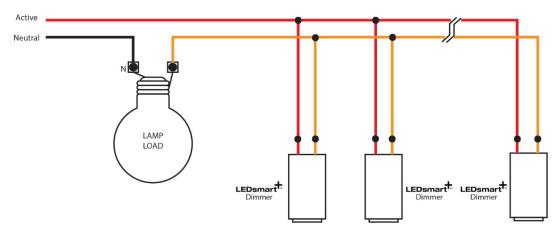


Wiring for multi-way (three-way or more) dimming and switching

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.

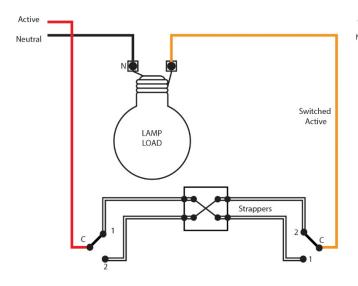
New Installation – multi-way (three-way or more) dimming/switching



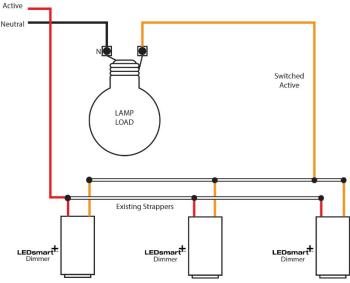
Three-way dimming and switching using **LEDsmart**⁺ dimmers. Note that each two-wire **LEDsmart**⁺ dimmer is simply wired in parallel.

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

Existing three-way switching



Replacement three-way dimming/switching



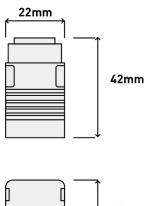
Traditional three-way switching using two rocker switches and one intermediate switch, with strappers between the switches.

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.





Dimensions



24mm

Approvals & Compliance



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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.

