DIMPBD

See current catalogue for further detail

Push Button Dimming



FEATURES

- DIMPBD Push Button Digital Dimmer and ON/OFF switch in one - perfect for dimmable LED.
- Multi-Way Dimming and Switching when used in conjunction with MEPBMW slave unit. Push Button Multi-Way Remote.
- Wider range - Deep Dimming to Zero on most lamps.
- Programmable minimum brightness.
- Double tap when ON - lights dim down to OFF over 30 minutes.
- Double tap when OFF - turn lights ON at previous level and ramps to full brightness over 30 minutes.
- Restarts OFF and retains settings after power loss.
- Improved patented ripple tone filtering.
- Rugged Over Current, Over Voltage and Over Temperature protection.
- Illuminated LED - configurable.
- Trailing Edge dimming with linear response.
- Suits both Trader and Clipsal* wall plates.
- Supplied with MEBU Gloss White & Gloss Black buttons, suits Puma, Cougar & Flat Cat gloss finishes.
- NOT SUITABLE FOR FANS AND MOTORS.

OPERATING CONDITIONS

• Operating Voltage:	230-240Va.c. 50Hz
• Maximum Load:	350W (see table below)
• Minimum Load:	1W
• Maximum Current Capacity:	1.5A
• Connection Type:	Flying leads with bootlace terminals
• Operating Temperature:	0 to +50 °C
• Certified Standard:	AS/NZS 60669.2.1, CISPR15

Note: Operation at temperature, voltage or load outside of the specifications may cause permanent damage to the unit.

WHITE, BLACK, SILVER, MATT WHITE & MATT BLACK BUTTONS AVAILABLE:

MEBUMW & MEBUMBK (curved button for Flat Cat),
MEBUC & MEBUCBK (flat button for Leopard and Snow Leopard),
MEBUCSV (flat button for Snow Leopard Silver finishes)
MEBUCMW & MEBUCMBK (flat button for Clouded Leopard matt finishes)



Load Compatibility

LOAD TYPE	LOAD SYMBOL	MAXIMUM LOAD
Dimmable LED Lamps [1]		250W
Incandescent / 240V Halogen / Dichroic Lamps		350W
Low Voltage Halogen / Dichroic Lighting with Iron-Core Transformers [2]		250W
Low Voltage Halogen / Dichroic Lighting with Electronic Tranformers [2]		350W
Dimmable Compact Fluorescent Lamps [1]		150W
Motors / Fans	M	Not Compatible
Non-Dimmable Fluorescent / Compact Fluorescent Lamps		Not Compatible

[1] Refer to lamp manufacturer's guidelines.
[2] Compatible with Atco & Clipsal transformers when loaded to at least 75% of their rated output.*

CAN BE USED IN CONJUNCTION WITH:

MEPBMW Push Button for Multi-Way Remote Dimming and On/Off switching



Cleaning Guide:

Spraying cleaning products on to electrical products is not recommended.

It is important to ensure that switches are turned off before cleaning.

Do not use any cleaning sprays - only wipe down with damp cloth or rub with dry cloth. (Do not use an abrasive cloth as it may scratch the plastic).

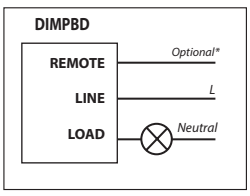
Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.

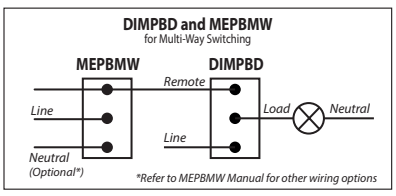


WIRING INSTRUCTIONS

WIRING

- Disconnect power at the circuit breaker before any electrical work.
- Install the DIMPBD as per the wiring diagram in figure below.





Certification Number:
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DIMPBDA

See current catalogue for further detail

Push Button Dimming



FEATURES

- DIMPBDA Push Button Digital Dimmer and ON/OFF switch in one - perfect for dimmable LED.
- Multi-Way Dimming and Switching when used in conjunction with MEPBMWA slave unit. Push Button Multi-Way Remote.
- Wider range - Deep Dimming to Zero on most lamps.
- Programmable minimum brightness.
- Double tap when ON - lights dim down to OFF over 30 minutes.
- Double tap when OFF - turn lights ON at previous level and ramps to full brightness over 30 minutes.
- Restarts OFF and retains settings after power loss.
- Improved patented ripple tone filtering.
- Rugged Over Current, Over Voltage and Over Temperature protection.
- Illuminated LED - configurable.
- Trailing Edge dimming with linear response.
- Suits both Trader and Clipsal* wall plates.
- Supplied with MEBU Gloss White & Gloss Black buttons, suits Puma, Cougar & Flat Cat gloss finishes.
- NOT SUITABLE FOR FANS AND MOTORS.

OPERATING CONDITIONS

• Operating Voltage:	230-240Va.c. 50Hz
• Maximum Load:	350W (see table below)
• Minimum Load:	1W
• Maximum Current Capacity:	1.5A
• Connection Type:	Flying leads with bootlace terminals
• Operating Temperature:	0 to +50 °C
• Certified Standard:	AS/NZS 60669.2.1, CISPR15

Note: Operation at temperature, voltage or load outside of the specifications may cause permanent damage to the unit.

WHITE, BLACK, SILVER, MATT WHITE & MATT BLACK BUTTONS AVAILABLE:

MEBUMW & MEBUMBK (curved button for Flat Cat),
MEBUC & MEBUCBK (flat button for Leopard and Snow Leopard),
MEBUCSV (flat button for Snow Leopard Silver finishes)
MEBUCMW & MEBUCMBK (flat button for Clouded Leopard matt finishes)



Load Compatibility

LOAD TYPE	LOAD SYMBOL	MAXIMUM LOAD
Dimmable LED Lamps [1]		250W
Incandescent / 240V Halogen / Dichroic Lamps		350W
Low Voltage Halogen / Dichroic Lighting with Iron-Core Transformers [2]		250W
Low Voltage Halogen / Dichroic Lighting with Electronic Tranformers [2]		350W
Dimmable Compact Fluorescent Lamps [1]		150W
Motors / Fans	M	Not Compatible
Non-Dimmable Fluorescent / Compact Fluorescent Lamps		Not Compatible

[1] Refer to lamp manufacturer's guidelines.
[2] Compatible with Atco & Clipsal transformers when loaded to at least 75% of their rated output.*

CAN BE USED IN CONJUNCTION WITH:

MEPBMWA Push Button for Multi-Way Remote Dimming and On/Off switching



Cleaning Guide:

Spraying cleaning products on to electrical products is not recommended.

It is important to ensure that switches are turned off before cleaning.

Do not use any cleaning sprays - only wipe down with damp cloth or rub with dry cloth. (Do not use an abrasive cloth as it may scratch the plastic).

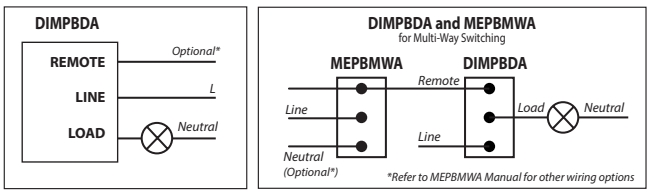
Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.



WIRING INSTRUCTIONS

WIRING

- Disconnect power at the circuit breaker before any electrical work.
- Install the DIMPBDA as per the wiring diagram in figure below.



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DIMPRE
DIMPREX

See current catalogue for further detail

Dimpala Electronic Push Rotary Dimmers





Dimpala Electronic PUSH Dimmer is electronically switched and provides optimised dimming of LED lamps and drivers.

- 220-240Vac / 50Hz / 2W Min / 400W Max / <1% to > 95% (load dependent, see table below).
- Suitable for LED, incandescent and 12V dichroic lamps.
- Minimum dimming level, typically almost 0%.
- Push switch configuration with terminals similar to a standard switch for easy wiring.
- Integrated switch replaces the need for an additional control switch.
- Soft start for improved lamp & driver life.
- Thermal protection via NTC (negative temperature control).
- DIMPRE is suitable for use with Australian wall plate apertures including Trader, HPM# & Clipsal*.
- Can be two way switched, but only one dimmer in the circuit

Specifications	
Nominal Line Voltage Amplitude Range	220-240Vac
Line Voltage Frequency	50Hz Nominal (47 - 53Hz)
Load Brightness Control Range	< 1% to > 95% (load dependent)
Rated Load	Refer Compatible Loads
Minimum Load	2W

Compatible Load types

Load Symbol	Load Type	Maximum Load	Notes
	Dimmable LED Drivers	400W	Maximum permitted number of drivers is 400W divided by driver nameplate power rating.
	Dimmable LED Lamps	400W	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power-factor result when connected to dimmer.
	Electronic Transformers	400W	
	Standard iron-core transformers	250W	Due to variety of transformer designs, max LV lighting load is further dependent on transformer efficiency
	Toroidal iron-core transformers	300W	
	Incandescent	400W	
	Dimmable CFLs	200W	Due to the variety of CFL designs, the maximum number of dimmable CFL lamps is make/model dependent



DIMRKB Standard Comes supplied with dimmer | DIMPRKBMW | DIMPRKBBK | DIMPRKBMBK | DIMPRKBSN (Snow Leopard) | DIMPRKBS (Saturn*) | DIMPRKBZ (Zen*) | DIMPRKBZBK (Zen Black*)

Catalogue Number	Description
DIMPRE	Dimmer Electronic Push Button ON OFF Rotary Dimming 400W Glow Green 2W Minimum
DIMPREX	Dimmer Electronic Push Button ON OFF Rotary Dimming 400W No Glow 2W Minimum
DIMPRKBBK	Knob for Push Rotary Black Dimmer Knob, Black
DIMPRKBMW	Knob for Push Rotary Dimmer, Matt White
DIMPRKBMBK	Knob for Push Rotary Dimmer, Matt Black
DIMPRKBSN	Knob for Push Rotary Dimmer, Snow Leopard, Chrome Finish
DIMPRKBS	Knob for Push Rotary Saturn Dimmer Chrome Finish
DIMPRKBZ	Knob for Push Rotary Dimmer, Saturn Zen, White
DIMPRKBZBK	Knob for Push Rotary Dimmer, Saturn Zen, Black

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GSM Electrical (Australia) Pty Ltd, the TRADER brand and it's products, have no endorsement or affiliation with Schneider Electric Pty Ltd.

Cleaning Guide:

Spraying cleaning products on to electrical products is not recommended.

It is important to ensure that switches are turned off before cleaning.

Do not use any cleaning sprays - only wipe down with damp cloth or rub with dry cloth. (Do not use an abrasive cloth as it may scratch the plastic).

Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.



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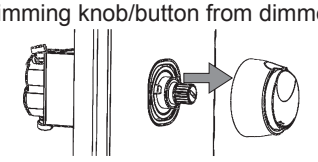
DIMPRE
DIMPREX

See current catalogue for further detail

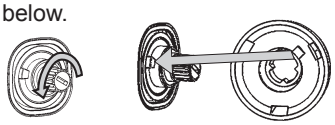
Dimpala Electronic Push Rotary Dimmers

Setting minimal brightness level

Step 1
Leave the dimmer connected, but remove the dimming knob/button from dimmer shaft.



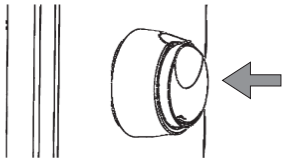
Step 2
Turn the dimmer shaft anti-clockwise until the required minimum brightness level is reached while lights are on. Then align the knob with the spline so that the small stops are next to each other and push the knob back into position.
The knob should sit correctly on the plate and the push button should function as shown below.



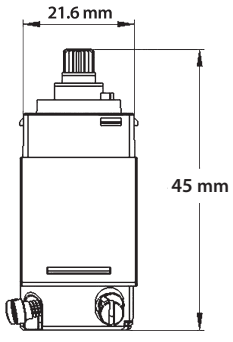
Setting LED Colour

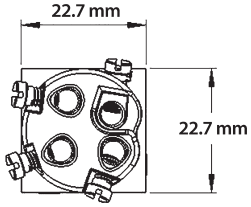
Step 3
Backlighting colours available are green (standard), blue and off
To set colour:

- Press central button consecutively 5 times (can remove knob for easier viewing)
- Light will flash and cycle from green to blue to white (white represents no illumination) then cycle again
- Press the central button when preferred colour is shown to set
- The process must be repeated to reset the colour if there has been a black out or the circuit has been switched off at the switch board.









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Cleaning Guide:

Spraying cleaning products on to electrical products is not recommended.

It is important to ensure that switches are turned off before cleaning.

Do not use any cleaning sprays - only wipe down with damp cloth or rub with dry cloth. (Do not use an abrasive cloth as it may scratch the plastic).

Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.



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DIMR

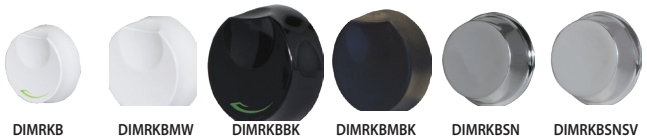
See current catalogue for further detail

Dimpala Universal Eclipse Dimmer



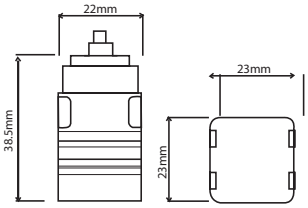
- Dimpala Eclipse Rotary Control Dimmer provides optimised dimming of LED lamps and drivers. This two-wire phase control [wall plate] dimmer has a minimum load rating of 2W.
- Although optimised for LED lighting loads, this dimmer also provides excellent compatibility with other common lamp types such as incandescent lamps and 12V halogen (dichroic) lamps / transformers.
- Fits Australian wall switch plate apertures (For example, the Trader range, plus #HPM and *Clipsal ranges).
- Separately switched 2-wire design - no neutral wire connection required for wallplate retrofit installation.
- Minimum brightness typical 0%.
- "Soft-start" helps prolong lamp and driver life.
- Inherent immunity to installation wiring short circuit fault.
- Complies with all relevant Australian standards.
- Features 'On' LED indicator.
- Mechanical Minimum Brightness setting by adjusting knob position on pot shaft.

Knob Style and Colours Available



DIMRKB
Standard
Comes supplied with dimmer

DIMRKBMW | DIMRKBBK | DIMRKBMBK | DIMRKBSN | DIMRKBSNSV



Specifications	
Nominal Line Voltage Amplitude Range	220-240Vac
Line Voltage Frequency	50Hz Nominal (47 - 53Hz)
Load Brightness Control Range	< 1% to > 95% (load dependent)
Rated Load	Refer Compatible Loads
Minimum Load	2W

Compatible Load types			
Load Symbol	Load Type	Maximum Load	Notes
	Dimmable LED Drivers	400W	Maximum permitted number of drivers is 400W divided by driver nameplate power rating.
	Dimmable LED Lamps	400W	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power-factor result when connected to dimmer.
	Electronic Transformers	400W	
	Standard iron-core transformers	250W	Due to variety of transformer designs, max LV lighting load is further dependent on transformer efficiency
	Toroidal iron-core transformers	300W	
	Incandescent	400W	
	Dimmable CFLs	200W	Due to the variety of CFL designs, the maximum number of dimmable CFL lamps is make/model dependent
M.3 (M)	Small Motor Load	100W	

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Cleaning Guide:

Spraying cleaning products on to electrical products is not recommended.

It is important to ensure that switches are turned off before cleaning.

Do not use any cleaning sprays - only wipe down with damp cloth or rub with dry cloth. (Do not use an abrasive cloth as it may scratch the plastic).

Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.



Certification Number:
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www.gsme.com.au

DIMRRIP

See current catalogue for further detail

Dimpala Trailing Edge Dimmer Ripple Tone Rejection for Flicker Free Dimming



- Dimpala Eclipse Rotary Control Dimmer provides optimised dimming of LED lamps and drivers. This two-wire phase control [wall plate] rotary dimmer has a minimum load rating of 2W.
- Although optimised for LED lighting loads, this dimmer also provides excellent compatibility with other common lamp types such as incandescent lamps and 12V halogen (dichroic) lamps / transformers.
- Fits Australian wall switch plate apertures (For example, the Trader range, plus #HPM and *Clipsal ranges).
- Separately switched 2-wire design - no neutral wire connection required for wallplate retrofit installation.
- Minimum brightness typical 0%.
- "Soft-start" helps prolong lamp and driver life.
- Inherent immunity to installation wiring short circuit fault.
- Complies with all relevant Australian standards.
- Mechanical Minimum Brightness setting by adjusting knob position on pot shaft.
- NOT SUITABLE FOR FANS OR MOTORS.

Knob Style and Colours Available



DIMRRIPKB
Standard
Comes supplied with dimmer

DIMRRIPKBMW | **DIMRRIPKBBK** | **DIMRRIPKBMBK** | **DIMRKBSN** | **DIMRKBSNSV**

Specifications	
Nominal Live Voltage Amplitude Range	220-240Vac
Line Voltage Frequency	50Hz Nominal (47 - 53Hz)
Load Brightness Control Range	<1% to >95% (load dependent)
Rated Load	Refer Compatible Loads
Minimum Load	2W

Compatible Load Types			
Load Symbol	Load Type	Maximum Load	Notes
	Dimmable LED Drivers	250W	Maximum permitted number of drivers is 250W divided by driver nameplate power rating
	Dimmable LED Lamps	250W	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power-factor result when connected to dimmer.
	Electronic Transformers	300W	
	Standard Iron-core Transformers	250W	Due to variety of transformers designs, max LV lighting load is further dependent on transformer efficiency
	Toroidal iron-core transformers	250W	
	Incandescent	300W	
	Dimmable CFL's	150W	Due to the variety of CFL designs, the maximum number of dimmable CFL lamps is make/model dependent
M.3 Ⓜ	Small Motor Load	N/A	

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DIMRSF750
DIMRSF1050

See current catalogue for further detail

Ripple Filters



Usage and application.

Historically the Zellweger method of injecting a specific audio tone signal through medium voltage to low voltage mains to control receiving relays was a cheap and reliable method for supply companies to control load shedding applications for peak times for air conditioners, street lighting and other applications. Nowadays smart meters and electronics are used to function with these signals.

This system often referred to as ripple injection, is not unique to Australia and is used elsewhere with other signal frequencies and systems. In Australia it is used for applications of load shedding and control in South East Queensland and NSW. The mains power is 230-250V at a frequency of 50hz and the ripple control signal is transmitted at a higher frequency that can be detected by smart meters or ripple signal detectors. The exact frequency of the ripple signal depends on your location and the system used by the energy operator in that area.

In South East Queensland, for example, Energex use a 1050hz ripple signal. Elsewhere, such as NSW there is a mix of 1050Hz, 750hz and 492hz depending on location boundaries. (Note: these products are not suitable for use in the St George region that uses 492Hz)

The advent greater use of electronic devices in the home has seen greater interference in everyday installations from the use in ripple injection. Back when incandescent lights were used, they would flicker a little during the ripple injection and then stabilize, however many electronic products require quality mains input signals and do not have filtering to cope with these higher frequencies through the standard sine wave and they react by flashing and losing control. The use of dimmers in the circuit can often increase the level of flashing or effects. Other products such as ceiling fans also suffer with the injected signals causing hum in the motors and fluctuations.

QUEENSLAND		NEW SOUTH WALES	
Frequency 750Hz	**Frequency 1050Hz**	**Frequency 750Hz**	**Frequency 1050Hz**
Not suited for Queensland	Gold Coast	Sydney and surrounds	Central Coast
	Sunshine Coast	Hunter region - Maitland and Muswellbrook	Hunter region - Newcastle
	Toowoomba	Bankstown	Dee Why
	Lockyer Valley	Sutherland	Sydney – Northern Beaches
	Brisbane and surrounding regions		

Cleaning Guide:

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Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.



Catalogue Number	Description
DIMRSF750	Ripple Signal Filter 230V 240V ac 50Hz 250W Max Load Tuned for 750Hz Ripple Control Signal IP20 Indoor Rating
DIMRSF1050	Ripple Signal Filter 230V 240V ac 50Hz 250W Max Load Tuned for 1050Hz Ripple Control Signal IP20 Indoor Rating

Certification Number:
TBC

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