

40ERPBDM-VW

PDL300ERPBDM-VW

40EPBDM-VW

PDL300EPBDM-VW



Scan the QR code to view the document online.

Multiway Dimmers

About the product

The Rotary Push and Push Button dimmers provide multiway control with integral switching, delivering smooth dimming for LEDs, incandescent lamps, and electronic transformers.

- Push Button Dimmer: Short press to switch on/off. Long press to dim.
- Rotary Push Dimmer: Rotate to dim. Press to switch on/off.

For your safety

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- It is illegal for persons other than an appropriately licensed electrical contractors or other persons authorised by legislation to work on the fixed wiring of any electrical installation.
- To comply with all safety standards, the device must be used only for the purpose described in this instruction and must be installed in accordance with the wiring rules and regulation in the location where it is installed.
- There are no user serviceable parts inside the device.

Failure to follow these instructions will result in death or serious injury.

⚠ CAUTION

EQUIPMENT DAMAGED HAZARD

- Install the device according to instructions in this document.
- Do not use the device for any other purpose than specified in this instruction.

Failure to follow this instruction can result in injury or equipment damage.

Installation

- (1) Remove the knob from the shaft.
 - (2) Insert the dimmer into the grid plate.
 - (3) Connect the wires to the dimmer as per the illustrations **1**.
 - (4) Secure the knob back to the shaft.
- The dimmer is installed and ready to use.

1 Wiring diagram

Make wiring connections as per the illustration:

Active (A), Neutral (N) and Load (L).

NOTE:

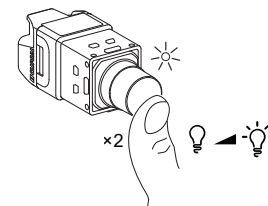
- The maximum cable length between each dimmer is 50 m max.
Example: Dimmer 1 load terminal to Dimmer 2 load terminal cable length is 50m max and in a 3-way scenario Dimmer 2 load terminal to Dimmer 3 load terminal is 50 m max.

Control options

(1) Wake-Up Mode

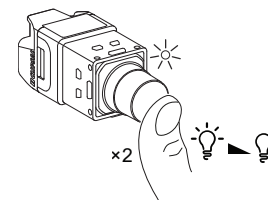
- When load is OFF, short press 2 times.
- The brightness gradually increases from minimum to maximum within 20 minutes.

NOTE: The dimmer follows preset minimum and maximum brightness settings.

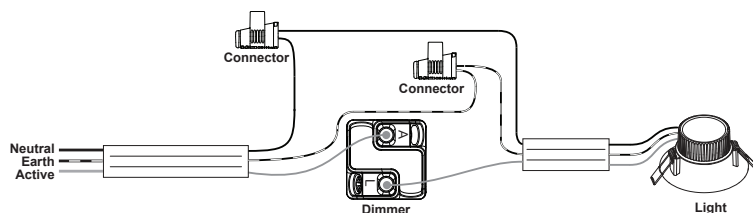


(2) Sleep Mode

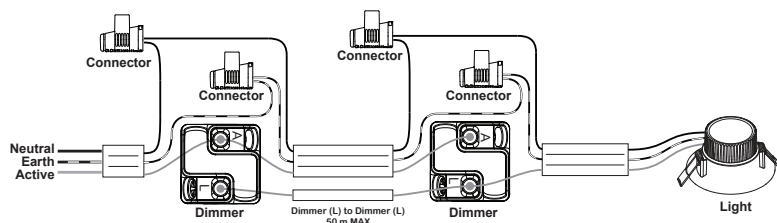
- When load is ON, short press 2 times.
- The brightness gradually decreases from current setting to OFF within 20 minutes.


1

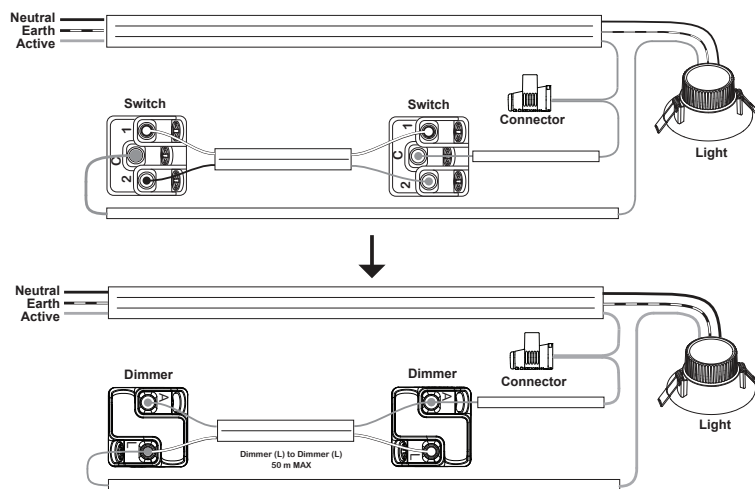
New Installation, one-way Dimming & Switching - Looping at the Dimmer



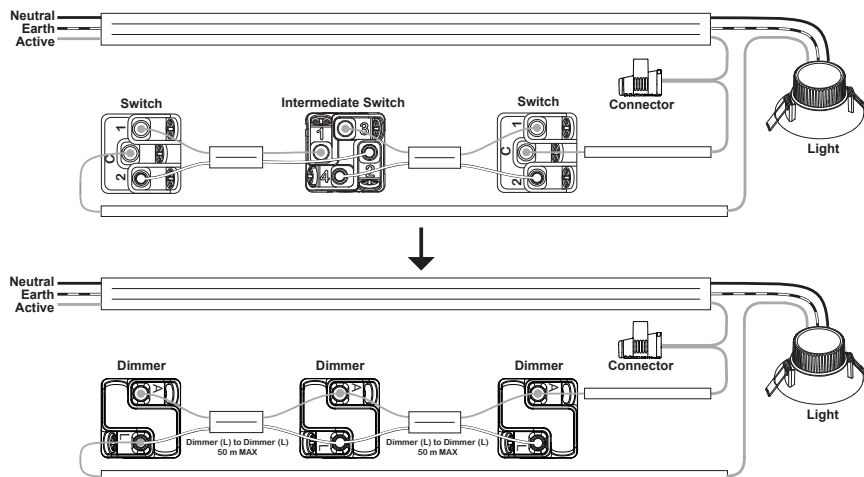
New Installation, two-way Dimming & Switching - Looping at the Dimmer



Modifying the existing two-way switch wiring for two-way switching and dimming - Looping at the Light



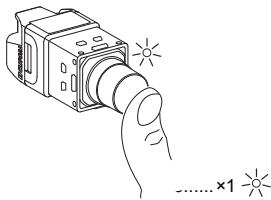
Modifying the existing three-way switch wiring for three-way switching and dimming - Looping at the Light



Configuration modes

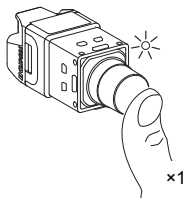
(1) Enter Configuration Mode

- Short press 6 times.
- All dimmer indicators blink white once every 2 seconds.



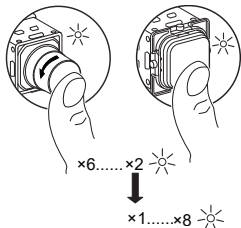
(2) Exit Configuration Mode

- Short press 1 time to manually exit Configuration Mode.
- Automatically exits configuration mode after 30 seconds.



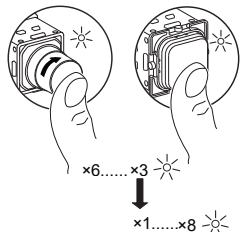
(3) Setting Minimum Brightness

- Enter Configuration Mode.
- Short press 2 times, a white indicator blinks twice.
- Rotate/Press to adjust the brightness.
- Short press 1 time to save. The indicator blinks 8 times.



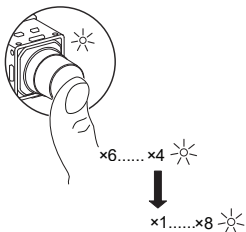
(4) Setting Maximum Brightness

- Enter Configuration Mode.
- Short press 3 times, a white indicator blinks thrice.
- Rotate/Press to adjust the brightness.
- Short press 1 time to save. The indicator blinks 8 times.



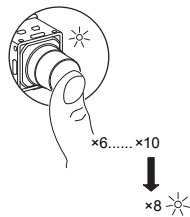
(5) Setting Kick Start (Disabled by Default)

- Enter Configuration Mode.
- Short press 4 times. The indicator blinks 4 times.
- Short press 1 time to toggle status and save. The indicator blinks 8 times.



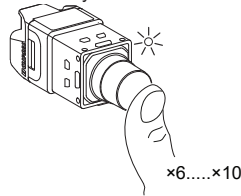
(6) Reset to Default Settings

- Enter Configuration Mode.
- Short press 10 times, all indicators blink 8 times, the device resets and exits.



Indicator settings

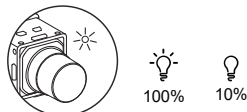
- Enter Configuration Mode.
- Long press for 10 seconds to enter Secondary Menu.



SECONDARY MENU MODES:

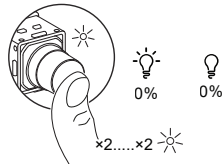
- a. Mode 1 (Default): blue indicator blinks once.

- Load ON → LED 100% brightness
- Load OFF → LED 10% brightness



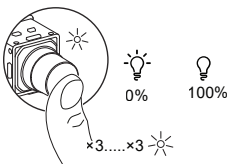
- b. Mode 2: Short press 2 times, blue indicator blinks 2 times in a loop.

- Load ON → LED 0% brightness
- Load OFF → LED 0% brightness



- c. Mode 3: Short press 3 times, blue indicator blinks 3 times in a loop.

- Load ON → LED 0% brightness
- Load OFF → LED 100% brightness



- d. Mode 4: Short press 4 times, blue indicator blinks 4 times in a loop.

- Indicator color: White



- e. Mode 5: Short press 5 times, blue indicator blinks 5 times in a loop.

- Indicator color: Blue



- Save & Exit: Long press 3 seconds, indicator blink 8 times.
- Automatically exits configuration mode after 30 seconds.

Technical data

Nominal voltage	220 - 240V AC, 50 Hz
Dimming technique	Trailing edge phase control
Compatible load type	LED, incandescent lamp, electronic transformer
Wire configuration	2 wire
Number of multi-way devices	max 4 dimmers
LED indication	Yes, warm white and blue indicators (configurable)
Minimum load	3 W (1 dimmer), 7 W (2 dimmers), 9 W (3 dimmers), 12 W (4 dimmers)
LED lamp	Max load: 350 W
Incandescent lamp	Max load: 300 W
Electronic transformer	Max load: 300 W
Standby:	≤ 0.5 W
Operating temperature	0°C ... 40 °C
Voltage frequency stability	Yes
Short circuit protection	Yes
Thermal overload protection	Yes
Operating humidity	5%-95% RH, non-condensing
The maximum cable length between dimmers	50 m max between dimmer load terminals. Total end-to-end load cable length is 100 m max. Refer to the wiring diagram for further details
IP rating	IP20
Compliance	AS/NZS 60669.2.1, AS/NZS CISPR-15

Product dimensions

Rotary Push Dimmer	40 series/300 series - 23.5 mm (H) x 23.5 mm (W) x 60.6 mm (D)
Push Button Dimmer	40 series/300 series - 23.5 mm (H) x 23.5 mm (W) x 43.6 mm (D)

Derating

Dimmer per plate	Max load	LED load
1 gang	100%	350 W
2 gang	85%	300 W
3 gang	70%	250 W
4 gang	55%	195 W
5 gang	40%	140 W
6 gang	25%	90 W

Ripple injection interference

In some regions of the country a slight flicker may be experienced at certain times of day when luminaire is dimmed. This is due to power line signals sent by the electricity supply authorities to assist with switching utilities, for example off-peak hot water services. This effect is not a malfunction of the luminaire or dimmer but a result of the local electrical supply conditions changing during the day. If this occurs, adjusting the dimmer to an alternate or maximum brightness will help minimize flickering.

LED compatibility

The dimming performance will depend on the type and brand of the LEDs that are connected and the installation conditions. Clipsal dimmers are designed for optimum performance with Clipsal branded LEDs. Some alternate brand LEDs may not operate as expected. This depends on the number of LEDs, the type of driver and the power quality supplied from the supply network. If required, install a 31LCDA load correction device to help improve LEDs dimming performance.

Mini-kick start feature

The mini-kick start feature reduces load turn-on time when the dimmer is set to a low brightness level.

Overload and Short circuit protection facilities

The rotary dimmers have a number of mechanisms to help reduce the risk of damage in the case of abnormal operating conditions.

Thermal overload protection - Two levels	Thermal overload protection If overloaded, the dimmer will switch the load Off as a primary protection measure. The protection resets automatically once normal conditions return.
	Thermal cut-out A non-resettable thermal fuse provides backup protection during persistent or extreme overloads. If it blows, the dimmer becomes permanently inoperable and must be replaced. NOTE: The fuse is not user-replaceable. Avoid significant overloads to prevent damage to the load, wiring, or connected equipment.
Short circuit protection	The dimmer receives power from the Active conductor and provides protection against wiring faults or load failures. If a short circuit occurs, disconnect the Active supply to power-cycle the dimmer. Once the fault is cleared, reconnect the wiring to restore normal operation.

Warranty information

We warrant this product for 7 years from date of installation. To make a warranty claim, please reach out to customer care.

For consumer warranty claims in Australia visit clipsal.com/warranty.

Terms and Conditions

AU – <https://www.se.com/au/en/about-us/legal/terms-and-conditions/>

NZ – <https://www.se.com/nz/en/about-us/legal/terms-and-conditions.jsp>

Customer care

Schneider Electric (Australia) Pty Ltd
33-37 Port Wakefield Road, Gepps Cross SA 5094
Customer Care: 13 73 28
Email: customer care.au@se.com

Schneider Electric (NZ) Ltd
Level 2, Building 6, 64 Highbrook Drive East Tamaki, Auckland 2013, New Zealand
Customer Care: 0800 741 303
Email: customer care.nz@se.com