

CLIPSAL by Schneider Electric

PDL by Schneider Electric

Rotary LED Dimmer
42ELEDM2-VW
PDL354RDMLED2-VW

Iconic® Module

1. Follow the installation instructions
2. Set up the Dimmer

Load compatibility

	Dimmable LED	150 W
	Non-dimmable LED	Not compatible
	Incandescent	150 W

Derating

Dimmers per plate	Max load
1	150 W
2	100 W
3	75 W

Note: Consider using 31LCDA Load Correction Device for difficult to dim loads.

Customer care

Warranty information

We warrant this product for 2 years. See **Warranty** links below.

Schneider Electric (Australia) Pty Ltd
33-37 Port Wakefield Road, Gepps Cross SA 5094
Customer Care: 13 73 28
Email: customercare.au@se.com
Warranty:
https://www.se.com/au/en/about-us/legal/terms-and-conditions.jsp
www.se.com

Schneider Electric (NZ) Ltd
Building 6, 60 Highbrook Drive, East Tamaki, Auckland 2013
Customer Care: 0800 652 999
Email: sales@nz.schneider-electric.com
Warranty:
https://www.se.com/nz/en/about-us/legal/terms-and-conditions.jsp
www.se.com

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.
- Lock out and tag the input circuit before accessing the wiring connections.
- The Locking Bar on the grids must be set to the Closed position to ensure that the device cannot be removed during normal operation.
- There are no user serviceable parts inside the device.

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

⚠ CAUTION

EQUIPMENT DAMAGE HAZARD

- Install the device according to instructions in this document.
- Pay attention to the specifications and wiring diagrams related to the installation.
- Do not use the device for any other purpose than specified in this instruction.
- Dropping the device may damage the internal components. Check that the device operates after being dropped or if physical damage is shown.

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

EQUIPMENT DAMAGE HAZARD (LOAD AND OPERATION)

- Operation of the device at elevated temperatures or voltages outside of specification (240 V a.c. and 25 °C) may cause the over-temperature protection circuitry to operate. Operating with significant overload may activate thermal shut-down. In extreme cases, the thermal fuse may blow and render the device inoperable.
- Reduce the size of the connected load or use a different brand of lamp to prevent recurrence.
- Do not operate the product for prolonged periods in extreme conditions.

Failure to follow these instructions can result in equipment damage.

NOTICE

MAXIMUM LOAD RATINGS APPLY

Ensure that the number of low voltage lighting transformers connected to a single device does not exceed the maximum load rating of the device.

Failure to follow these instructions can result in equipment damage.

For your safety

NOTICE

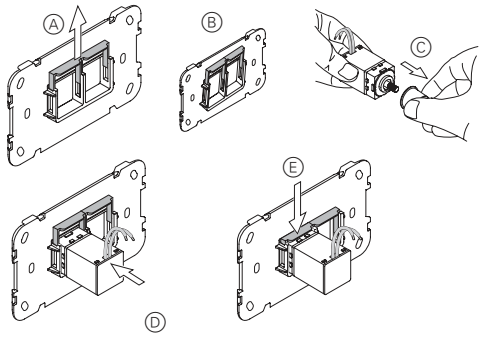
MIX LOAD

It is not recommended to mix load types as this may cause unexpected performance, and may cause the dimmer to operate in an uncompatible mode, potentially causing a product issue.

Failure to follow these instructions can result in equipment damage.

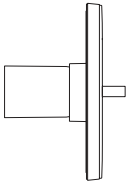
Installation

Fitting the dimmer to the plate

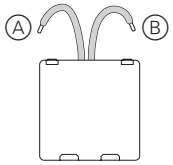


Wall depth

Min 39 mm

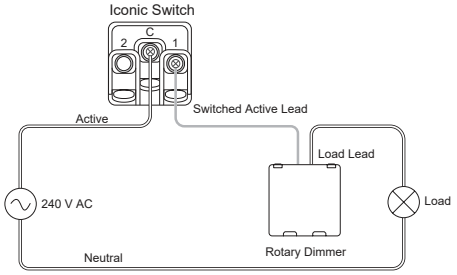


Cabling and connections

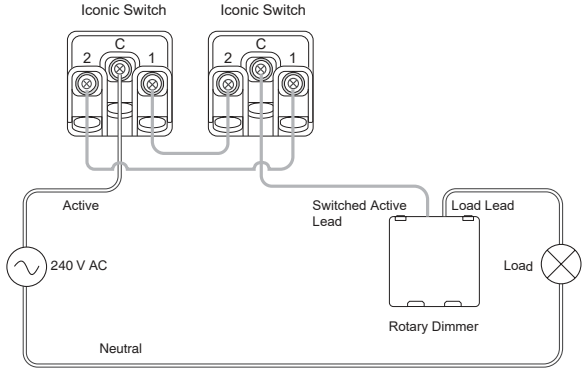


Ⓐ Switched Active
Ⓑ Load

One-Way Application (example)



Two-Way Application (example)

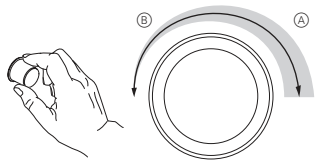


Note:
All Active connections must be on the same phase.

A	Active
N	Neutral
L	Load

Using the dimmer

Dimming and Brightening

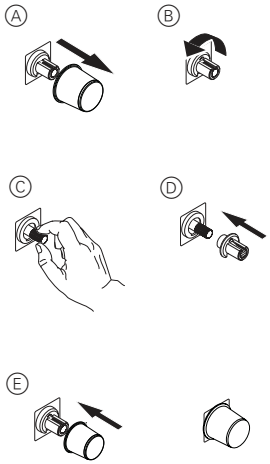


With the light switched On:

① Turn the knob clockwise Ⓐ to brighten the light.

② Turn the knob counter-clockwise Ⓑ to dim the light.

Adjusting the Minimum Brightness Level



① Remove skin, then remove the knob from the shaft Ⓐ.

② Remove the adapter. If the adapter remains on the shaft, rotate anti-clockwise until it stops Ⓑ. Hold the adapter so the key-way of the adapter aligns with the slot in the body, then pull to remove the adapter.

③ Switch the light On.

④ Rotate the shaft until the desired **minimum** light level is reached Ⓒ.

⑤ Hold the adapter so the key-way of the adapter aligns with the slot on the mechanism surround, then slide the adapter onto the shaft Ⓓ, ensuring that the key of the adapter engages with the slot on the mechanism surround.

⑥ Push the knob onto the adapter Ⓔ ensuring that the flat keyway on the knob aligns with the flat keyway on the adapter. Then press the end of the knob until the knob is firmly seated on the adapter.

Ripple injection interference

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

Kick start feature

The purpose of the kick start feature is to support switching on the load at low dim levels in context with certain LEDs. The LED load is quickly ignited at a higher dim level and then smoothly returns to the previously set dim level.

LED compatibility

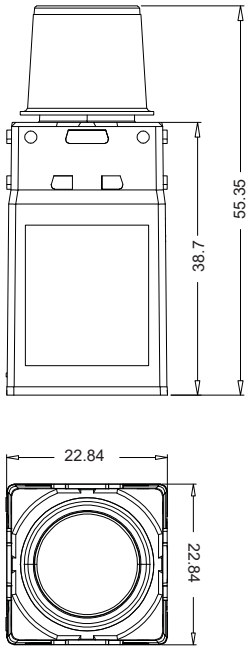
The dimming performance will depend on the type and brand of the LEDs that are connected and the installation conditions. Clipsal dimmers are designed for optimum performance with Clipsal branded LEDs. Some alternate brand LEDs may not operate as expected. This depends on the number of LEDS, the type of driver and the power quality supplied from the supply network. A 31LCDA load correction device may resolve some of these issues.
A 31LCDA maybe required if controlling a single LED load.

Overload and Short Circuit Protection Facilities

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

Thermal Overload Protection - Two Levels	**Thermal Overload Protection** Automatically reduces lamp brightness should the dimmer be inadvertently over-loaded. Extreme overloads will result in the load turning Off (primary defence against overload). The Thermal Overload Protection resets automatically once overload conditions are corrected.
	Thermal Cut-Out The dimmer contains a non-resettable thermal fuse device designed to blow in case of circuit failure. This is a secondary protection measure intended to operate as a backup in case of persistent or prolonged overload conditions. If the thermal cut-out fuse blows, the unit will be rendered permanently inopera-ble and must be replaced. *Note: The thermal fuse device is not replaceable by the user.* Any significant overload should be avoided in order to prevent damage to the load, fixed wiring of the installation or other hardware connected to the affected circuit.
Short Circuit Protection	Designed to protect the dimmer under most abnormal operating conditions, **short circuit protection** helps the dimmer withstand wiring faults or failure of the load. The short circuit protection mechanism resets automatically once the short circuit condition is removed.

Dimensions



Technical data

Note: See product data sheet for full specifications. Specifications typical at 25 °C.

Operating voltage	220-240 V a.c., 50 Hz
Load rating	Min load: 5 W | Max load: 150 W
Dimming Technique	LED Dimmer | Trailing edge phase control
Design	2-wire
Compatible plate ranges	Iconic, Iconic Styl, Iconic Essence, Pro Series
Colour	Dimmer knob - VW: Vivid White Dimmer - Transparent green
Voltage Frequency Stability	Yes
Short Circuit Protection	Yes
Thermal Overload Protection	Yes
Multi-gang Plate capacity	Max 3 per plate. Derate as per first page
Environmental rating	IP20 (designed for indoor use only)
Operating humidity	5%–90% RH, non-condensing
Operating temperature	0–45 °C
Compliance	RCM
There are no user serviceable parts inside	

Disclaimer

Schneider Electric reserves the right to change specifications, modify designs and discontinue items without incurring obligation and whilst every effort is made to ensure that descriptions, specifications and other information in these instructions are correct, no warranty is given in respect thereof and the company shall not be liable for any error therein.

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