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

**WARNING**

RISK OF ELECTRIC SHOCK

Hazardous voltage and electrical current may be present at the wire leads and outputs of this product even when the device is switched off.
• Lock out and tag the input circuit before accessing the wiring connections.
• The device needs to be installed with a switch. Failure to follow these instructions can result in death or serious injury.

**NOTICE**

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 this product for any other purpose than specified in this instruction.
• Do not perform insulation tests on this product. Failure to follow these instructions can result in minor injuries, or equipment damage.

**CAUTION**

RISK OF EQUIPMENT DAMAGE OR MALFUNCTION (WIRING CONNECTIONS)

To avoid damaging the equipment and possibly voiding the warranty:
• Test operation during installation and correct any wiring errors immediately.
• Keep cable insulation away from the sides of the enclosure to avoid possible damage or long term degradation of the cable insulation. Failure to follow these instructions can result in equipment damage or malfunction.

**NOTICE**

RISK OF ABNORMAL OPERATION OR REDUCED PERFORMANCE

• Do not connect mixed load types to the Rotary Dimmer. Use the Iconic Pushbutton Electronic Switch 6 A for mixed loads.
• When using electronic transformers, load each transformer to at least 75% of its maximum rated load to reduce the possibility of lamp flicker when dimming. Refer to the manufacturer’s specifications for the transformer being used.
• The Rotary Dimmer has a 1 W minimum load. When connecting loads that are sensitive to low leakage currents, fit a 31LCDA Load Correction Device to reduce the possibility of an unstable ‘off’ state.
• Some lamps may exhibit unexpected performance characteristics when cold. Dimming performance should improve once the lamp warms up. (Dimming performance may vary between lamp manufacturers.)
• Clipsal dimmable LED lamp types are recommended for compatibility assurance. Other LED loads may not be compatible—contact the manufacturer for compatibility advice. (Refer to clipsal.com/load for recommended LEDs.)
• Use only iron-core transformers compatible with electronic switches / phase controlled dimmers as recommended by the manufacturer. Failure to follow these instructions can result in abnormal equipment operation or reduced equipment performance.

**WARNING**

Product Range

This product is part of the Iconic range incorporating electronic product modules including dimmers, timers, timeclocks and USB chargers. For more information about the Iconic range, visit official Clipsal and PDL websites.

Complementing the range are Wall Plates and Parts Packs (available separately) in various colours to suit many interior finishes.

**Colour Options**

<table>
<thead>
<tr>
<th>Product Group</th>
<th>Product Name</th>
<th>Order No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotary Dimmer</td>
<td>Rotary Dimmer Parts Pack, Vivid White</td>
<td>40EDIMKB-VW</td>
</tr>
<tr>
<td></td>
<td>Rotary Dimmer Parts Pack, Warm Grey</td>
<td>40EDIMKB-WY</td>
</tr>
<tr>
<td></td>
<td>Rotary Dimmer Parts Pack, Cool Grey</td>
<td>40EDIMKB-CY</td>
</tr>
<tr>
<td>Parts Packs</td>
<td>Rotary Dimmer Parts Pack, Anthracite</td>
<td>40EDIMKB-AN</td>
</tr>
</tbody>
</table>

(Matching Wall Plates available separately.)

**Description and Features**

The Iconic Rotary Dimmer is a two-wire 350 W mechanism featuring an adjustable minimum brightness setting. The product can be used with 1-way and 2-way switching applications.

**Features**

• Compatible with a wide range of load types (depending on model)
• Optimised dimming range with smooth LED control (depending on model)
• Short circuit & thermal overload protection
• Minimum brightness adjustment
• Suitable for 1-way and 2-way switching
• Wide range of plate and rotary knob colour variants available
• 1-, 2- or 3-gang wall plates available
• Complies with Australian, New Zealand and International EMC Standards

**Unit Operation**

**Dimming and Brightening**

With the light switched On:

1. Turn the dimmer adjustment knob clockwise ☃️ to brighten the light.
2. Turn the dimmer adjustment knob counterclockwise ☞ to dim the light.

Note: If the light is still too bright when you have turned the adjustment knob fully counterclockwise, you can adjust the minimum brightness level.
**Adjusting the Minimum Brightness Level**

1. Remove the dimmer adjustment knob from the mechanism shaft A.
2. If the adjustment knob adapter remains on the mechanism shaft, rotate the adapter until it is rotated fully anti-clockwise until it stops B.
3. Switch the light On.
4. Rotate the mechanism shaft until the desired minimum light level is reached C.
5. Hold the adapter so the keyway of the adapter aligns with the slot in the body, then slide the adapter onto the mechanism shaft D, ensuring that the key of the adapter engages into the slot with the mechanism surround.
6. Push the adjustment knob onto the adapter E ensuring the flat keyway of the knob, aligns with the flat of the shaft and then press the end of the knob until the knob is fully seated on the mechanism shaft.

**Advanced Load Handling Facilities**

Iconic rotary dimmers incorporate patented universal dimming technology, including advanced, intelligent features to ensure that the connected load is handled appropriately.

**Dimming Mode Selection**
- The dimmer is capable of driving a wide range of load types, depending on the model. Upon power-up, the unit:
  - Selects the correct dimming method to suit that load (Leading or Trailing Edge Phase Angle Control).

**Dynamic Auto-Ranging**
- The dimmer recognises that different loads have different capabilities. Each is able to dim over a different range, and may be able to dim over a wider range as the lamp warms up. The Dimmer:
  - Determines the maximum brightness setting
  - Determines the minimum brightness setting
  - Dynamically validates and adjusts the minimum brightness setting during operation to enable stable operation at lower levels as the lamp warms up.
- Note that initially the minimum brightness will be set to a ‘safe’ level to ensure stable operation. After a short time when the lamps warm up, depending on the load type, it may be possible to dim to a lower setting.

**Error Detection and Self-Correction**
- The dimmer is capable of recognising a number of error conditions where unstable operation of the lamp may be detected. In many instances, the unit is capable of automatically correcting the problem. Typical error conditions include:
  - Lamp flicker / unstable operation
  - Lamp drop-out.
- Note that while this facility is useful, it does not guarantee flawless operation. Such performance is a function of the design/construction of the lamp and may vary between lamp manufacturers. For LED loads, it is recommended to use Clipsal lamps – Clipsal LED loads are recommended for optimum performance and reliability.

**Overload Protection Facilities**

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

**Thermal Overload Protection Circuitry**
- Iconic rotary dimmers incorporate two levels of thermal overload protection:
  - **Thermal Overload Protection**
    - Automatically reduces lamp brightness should the dimmer be inadvertently overloaded. 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 catastrophic 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 inoperable 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.

**Load Compatibility**

**Important Notices for Rotary Dimmer**

**NOTICE**

**EQUIPMENT DAMAGE HAZARD (LOAD AND OPERATION)**
- Operation at elevated temperatures or voltages outside of specification (240 V AC and 25 °C) may cause the thermal protection circuitry to operate. Operating with significant overload may cause the thermal fuse to blow and render the dimmer inoperable.
  - Reduce the size of the connected load or use a different brand of lamp to prevent reoccurrence.
  - 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 Rotary Dimmer does not exceed the maximum load rating of the dimmer.
- Failure to follow these instructions can result in equipment malfunction.

**Load Compatibility Table**

<table>
<thead>
<tr>
<th>Load Symbol</th>
<th>Compatibles Loads</th>
<th>Rotary LED Dimmer</th>
<th>Rotary Universal Dimmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimmable LED Lighting</td>
<td>350 W</td>
<td>350 W</td>
<td></td>
</tr>
<tr>
<td>Non-dimmable LED Lighting</td>
<td>Not Compatible</td>
<td>Not Compatible</td>
<td></td>
</tr>
<tr>
<td>Incandescent Lighting</td>
<td>350 W</td>
<td>350 W</td>
<td></td>
</tr>
<tr>
<td>MV Halogen / Dichroic Lamps</td>
<td>Not Compatible</td>
<td>Not Compatible</td>
<td></td>
</tr>
<tr>
<td>Low voltage halogen / dichroic lighting with electronic transformers</td>
<td>350 W</td>
<td>350 W</td>
<td></td>
</tr>
<tr>
<td>Low voltage halogen / dichroic lighting with iron-core transformers</td>
<td>Not Compatible</td>
<td>Not Compatible</td>
<td></td>
</tr>
<tr>
<td>Dimmable Linear Fluorescent Lamps</td>
<td>150 W</td>
<td>150 W</td>
<td></td>
</tr>
<tr>
<td>Non-dimmable Linear Fluorescent Lamps</td>
<td>Not Compatible</td>
<td>Not Compatible</td>
<td></td>
</tr>
<tr>
<td>Dimmable Compact Fluorescent Lamps</td>
<td>150 W</td>
<td>150 W</td>
<td></td>
</tr>
<tr>
<td>Non-dimmable Compact Fluorescent Lamps</td>
<td>Not Compatible</td>
<td>Not Compatible</td>
<td></td>
</tr>
<tr>
<td>Small Motors (e.g. Ceiling and Exhaust Fans)</td>
<td>Not Compatible</td>
<td>Not Compatible</td>
<td></td>
</tr>
</tbody>
</table>

* Refer to clipsal.com/load for recommended Clipsal LEDs

**Installation Requirements**

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- Hazardous voltage and electrical current may be present at the wire leads and outputs of this product even when the device is switched off.
  - Lock out and tag the input circuit before accessing the wiring connections.
- Failure to follow these instructions can result in death or serious injury.
Fitting the Mechanism to the Plate

1. On the plate, move the locking bar to the Open position.
   Note: On multi-gang plates, the locking bar is a single piece covering all cutouts.
2. If fitted, remove the Adjustment knob and adapter from the dimmer mechanism shaft.
3. Push the head of the dimmer mechanism into the plate cutout until the head clicks into place.
4. Once the mechanism is installed in the plate (or all mechanisms for multi-gang plates), move the locking bar to the Closed position.
Do not replace the Adjustment knob and adapter until the plate has been fitted and fascia installed.

Fitting the Plate

Fascia Installation and Removal

Installation

1. Attach the Adjustment knob and adapter by aligning the adapter of the knob with the slot on the dimmer mechanism and then pressing the adapter and adjustment knob fully onto the mechanism shaft.
2. Place the upper section of the fascia against the upper section of the plate, as shown in .
3. Apply pressure to the bottom section of the fascia so that the fascia "snaps in" to the plate.

Wiring Diagrams

Overview

One-Way Application (example)

Two-Way Application (example)
**Off-Peak Ripple Signal Injection Considerations**

If dimmers are installed in areas where there are amplified ripple signals, flickering may be experienced at times of the ripple signal injection, depending on the load type and dimming level.

Whilst the Iconic rotary dimmers have been designed to tolerate the nominal level of regular off-peak ripple signals injected onto the mains supply, some electricity suppliers may increase the signal strength without prior notice, which may have an impact on the products’ ability to modulate ripple signals. This may lead to flickering of dimmed lights.

Please visit clipsal.com/ripple and contact the supply authority for more information about ripple signals.

**Electrical Specifications**

**Electrical Specification Notes**
- Specifications typical @ 240 V AC, 25 °C
- Suitable for indoor use only
- No user-serviceable parts inside.

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>42E350RLD2M-VW</th>
<th>42E350RUD2M-VW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Operating Voltage</td>
<td>220–240 V AC</td>
<td></td>
</tr>
<tr>
<td>Nominal Operating Frequency</td>
<td>50 Hz</td>
<td></td>
</tr>
<tr>
<td>Maximum Load (Dimming)</td>
<td>350 W</td>
<td>350 W</td>
</tr>
<tr>
<td>Minimum Load (Dimming)</td>
<td>1 W</td>
<td></td>
</tr>
<tr>
<td>Dimming Technique</td>
<td>Trailing Edge</td>
<td>Leading Edge / Trailing Edge Phase Control (dynamically auto-selected)</td>
</tr>
<tr>
<td>Voltage/Frequency Stability</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Short Circuit Protection</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Thermal Overload Protection</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Over-current/Over-temperature Protection</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>Multi-Gang Plate Capacity</td>
<td>Maximum 3 Mechanisms per Plate**</td>
<td>Maximum 3 Mechanisms per Plate**</td>
</tr>
<tr>
<td>Available Plates / Colours / Styles</td>
<td>Iconic Style, Standard and Architrave Options, Colour Packs for Rotary Dimmer (Plates available separately):</td>
<td>Iconic Style, Standard and Architrave Options, Colour Packs for Rotary Dimmer (Plates available separately):</td>
</tr>
<tr>
<td>Mounting Centres</td>
<td>84 mm Australian Pattern Plate</td>
<td></td>
</tr>
<tr>
<td>Safety Compliances</td>
<td>AS/NZS 60669.2.1</td>
<td>AS/NZS 60669.2.1</td>
</tr>
<tr>
<td>EMC Emission Compliance</td>
<td>AS/NZS 60669.2.1</td>
<td></td>
</tr>
</tbody>
</table>

* Refer to clipsal.com/load for recommended Clipsal LEDs

**Troubleshooting**

**General Troubleshooting**

**Problem**
- The LED load is glowing in the Off state and/or occasionally flickering when on.
- LED load is flickering when turned on from 2-way remote.
- LED lights are flickering at the same time every night when dimmed.

**Recommended Resolution**
- Iconic Rotary Dimmers are designed to work with Clipsal LED loads. We do not recommend using other LED loads.
- If other LED loads are used and the described problem occurs, try installing a Clipsal 31LDCA load correction device across the load for improved dimming performance.
- This may be caused by increased/amplified off-peak ripple signals on the mains supply. Improvements may come from operating the dimmer at increased brightness. If problems continue, install a 3-wire switch such as the Iconic Pushbutton Electronic Switch 6A. Refer to the section “Off-Peak Ripple Signal Injection Considerations” for more detail.

**Troubleshooting Notes**
- Iconic Rotary Dimmers are designed to work with Clipsal LEDs for optimum performance and reliability. Other LED loads may not be compatible – contact the manufacturer for compatibility advice. (Refer to the Section “Load Compatibility” and clipsal.com/load for recommended loads.)
- Contact Customer Care (see last page) for further guidance if issues persist.

**Warranty**

Schneider Electric (Australia) Pty Ltd, (Clipsal by Schneider Electric), warrants this product to be free from defects in materials and workmanship for a period of two years from the date of installation. The benefits conferred herein are in addition to any other rights and remedies you may have at law in respect to this product. Australian and New Zealand customers please see the notes below.

**Australia**

Australian Consumer Law specifies that our goods come with guarantees that cannot be excluded. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

**New Zealand**

This warranty is in addition to and does not affect your rights under applicable law, except where that law expressly provides otherwise. The Consumer Guarantee Act 1993(NZ) will not apply if this product is purchased for the purpose of business. This warranty is expressly subject to the Schneider Electric product being installed, wired, tested, operated and used in accordance with our instructions and specifications. Any alterations or modifications made to the product without our permission will void the warranty. Schneider Electric will at its option repair, replace or refund any defective product. The cost of replacement or repair of a defective product is limited to the price of the product only. Schneider Electric will not be responsible for the cost of retrieving, removing, reinstalling, transporting (including return of the defective product to us) or re-testing a product.

**How to make a claim:** You shall provide Schneider Electric with adequate particulars of the defect within 28 days of the fault occurring. Contact your local Schneider Electric (Australia) Pty Ltd, (Clipsal by Schneider Electric) for further guidance if issues persist.

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 this catalogue are correct, no warranty is given in respect thereof and the company shall not be liable for any error therein.

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