LED Dimmer
32ELEDM-WE
4062ELEDM-TR

Installation Instructions

The LED Dimmers are separately switched, compact, modular dimming mechanisms rated at 400W (1.6 A). The product uses advanced trailing edge dimming technology to provide full control of dimmable LEDs, incandescent lighting and electronic transformer based low voltage lighting. The LED Dimmer has an optimised dimming range and offers smooth control of dimmable LEDs.

**WARNING Electric Shock Hazard**

Hazardous voltage may be present at the output of the dimmer despite setting the dimmer to zero brightness level. Lock out and tag the input circuit before accessing the wiring connections. Failure to follow this warning can result in death or serious injury.

**IMPORTANT!** 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.

©2015 Schneider Electric. All rights reserved.

### Safety Notice

Read and understand all safety information in this instruction. Improper installation of the product can result in electrical shock that can result in death or serious injury. If you are not qualified to install this equipment, use a qualified electrical installer.

Improper installation of this product, or use for any purpose other than described in this instruction, can result in product failure or damage to attached equipment. Pay attention to the specifications and wiring diagrams in this document.

### Product Range

The following products are available in this range.

<table>
<thead>
<tr>
<th>Product Reference</th>
<th>Description</th>
</tr>
</thead>
</table>

Operation at temperatures or voltages outside of specification (240 V a.c. @ 25°C) may cause the thermal protection circuitry to operate. Decrease the size of the connected load to prevent re-occurrence.

There are no user serviceable parts inside the product.

© 2015 Schneider Electric. All rights reserved.

### Compatible Loads

The LED Dimmers are a part of the c-thru dimmer range. Each dimmer mechanism is colour coded to indicate load compatibility.

<table>
<thead>
<tr>
<th>LOAD SYMBOL</th>
<th>COMPATIBLE LOADS</th>
<th>LED DIMMER</th>
<th>UNIVERSAL DIMMER</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Dimmable LED Lighting with Electronic Transformers</td>
<td>YES</td>
<td>YES (300 W max.)</td>
</tr>
<tr>
<td>L</td>
<td>Incandescent Lighting, Halogen/Dichroic 240 V Lamps</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td>M</td>
<td>Low Voltage Halogen/Dichroic Lighting with Electronic Transformers</td>
<td>YES</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Low Voltage Halogen/Dichroic Lighting with Iron-core Transformers</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td></td>
<td>Small Motor Loads, Exhaust Fans, Ceiling Fans</td>
<td>NO</td>
<td>YES</td>
</tr>
</tbody>
</table>

* Visit clipsal.com/load for recommended loads, for other loads, contact supplier for compatibility advice.

### Capabilities

- Suitable for a range of lighting loads, including dimmable LEDs with electronic supplies, incandescents and downlight applications (see Compatible Loads).
- 400 W maximum load rating.
- Soft-start operation
- Preset minimum brightness with optimised dimming range for LEDs.
- Suitable for one-way or two-way switching.
- Inbuilt short-circuit and thermal overload protection.
- Fitted with suppressors to minimise radio frequency interference.
- Complies with Australian and International EMC standards.

©2015 Schneider Electric. All rights reserved.
Installation

Wiring Details
1. Disconnect power. Lock out and tag the relevant circuit at the main switchboard.
2. Remove existing switch from wall.
3. Connect the dimmer in accordance with the wiring diagrams.
4. Refit switch plate to wall and fit the dimmer knob to the shaft.
5. Reconnect power. Place the Megger information label near the circuit breaker.
6. Turn the LED Dimmer on and check its operation by turning control knob through the full dimming range.

Wiring Diagrams

One Way Operation

Two Way Operation

The Dimmer Mech must always be connected to the Line side of the load.

The Dimmer Mech wiring is NOT polarity sensitive.

For 2-way switching operation, the load can be switched ON or OFF from either switch. However, lamp brightness can only be adjusted from one location.

©2015 Schneider Electric. All rights reserved.

Operation

Soft Start Feature
The LED Dimmer incorporates a soft start feature providing a noticeable smooth lamp illumination at turn on. This feature also minimises lamp start-up stress and may increase lamp life.

Minimum Brightness Settings
The minimum brightness level has been factory preset to suit most applications.

Multi-Gang Derating
For applications where LED Dimmers are multi-ganged, derate the maximum load rating of the unit according to the derating table shown at right.

Thermal Overload Protection Circuitry
The LED dimmer incorporates two levels of thermal overload protection.
Thermal Overload Compensation
Automatically reduces lamp brightness should the dimmer be inadvertently overloaded. Primary defence against overload or short circuit. Resets automatically once overload conditions are corrected.
Thermal Cutout
The unit contains a non-resetting 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, then the dimmer will be rendered permanently inoperable and must be replaced.
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
The Clipsal LED Dimmer features short circuit protection, designed to ensure the dimmer can survive in case of wiring fault or catastrophic failure of the load.

Electrical Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply voltage and frequency</td>
<td>220-240 V a.c., 50 Hz.</td>
</tr>
<tr>
<td>Maximum load</td>
<td>400 W @ 240 V a.c., derate for multi-gang installations.</td>
</tr>
<tr>
<td>Minimum load</td>
<td>1 W</td>
</tr>
<tr>
<td>Dimming technology</td>
<td>Trailing edge phase control</td>
</tr>
<tr>
<td>Compatible loads for</td>
<td></td>
</tr>
<tr>
<td>32ELEDM-WE 4062ELEDM-TR</td>
<td>Dimmable LED lighting with compatible Electronic Transformers</td>
</tr>
<tr>
<td>Incompatible loads</td>
<td></td>
</tr>
<tr>
<td>Low Voltage Halogen/Dimmer lighting with compatible Electronic Transformers</td>
<td></td>
</tr>
<tr>
<td>Fluorescent lighting</td>
<td></td>
</tr>
<tr>
<td>Small motor loads, ceiling sweep fans</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>0 to 45°C</td>
</tr>
<tr>
<td>Operating Humidity Range</td>
<td>10 to 90% R.H.</td>
</tr>
<tr>
<td>Mounting Centres</td>
<td>84mm Australian Pattern Plate</td>
</tr>
<tr>
<td>Shipping Weight</td>
<td>25g Dimmer Mechanism Only</td>
</tr>
<tr>
<td>Safety Compliance</td>
<td>AS/NZS3100, IEC60669-2-1</td>
</tr>
<tr>
<td>EMC Emission Compliance</td>
<td>AS/NZS CISP15:2002</td>
</tr>
<tr>
<td>Specifications Typical @ 240 V a.c., 25°C</td>
<td>No User Serviceable Parts Inside</td>
</tr>
</tbody>
</table>

NOTE:
Operation at elevated temperatures or voltages may cause the thermal protection circuitry to operate. If this happens, decrease the size of the connected load to prevent re-occurrence.

Warranty Statement

The benefits conferred herein are in addition to, and in no way shall be deemed to derogate, either expressly or by implication, any or all other rights and remedies in respect to the product that the consumer has under the Commonwealth Trade Practices Act or any other similar State or Territory Laws.

The warrantor is Schneider Electric Australia Pty Ltd, 33-37 Port Wakefield Road, Gepps Cross, South Australia 5094.

This product is guaranteed against faulty workmanship and materials for a period of two (2) years from the date of installation.

Schneider Electric Australia Pty Ltd reserves the right, at its discretion, to either repair free of parts and labour charges, replace or offer refund in respect to any article found to be faulty due to materials, parts or workmanship.

This warranty is expressly subject to the product being installed, wired, tested, operated and used in accordance with the manufacturer’s instructions. Should the product that is the subject of the claim be found to be in good working order all costs incurred to replace the product shall be met by the claimant.

When making a claim the consumer shall contact the local Schneider Electric office and provide particulars of the defect within 28 days of the fault occurring. Return authorization is required before the product is sent to Schneider Electric. Returned items must be securely packed, complete with details of the date and place of purchase, description of load, and circumstances of malfunction.

Schneider Electric Australia Pty Ltd
Contact us: clipsal.com/feedback
Australia National Customer Care Enquiries: Tel 1300 2025 25 Fax 1300 2025 56
New Zealand National Customer Care Enquiries: Tel 0800 652 999 Fax 0800 100 152

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

© 2010-2015 Schneider Electric.