

# LED Dimmer

## 32ELEDM-WE

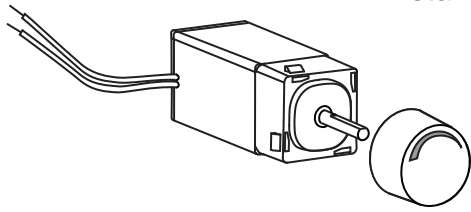
## 4062ELEDM-TR

MS18007-A-2015 February 2015



by Schneider Electric

### Installation Instructions



c-thru® The Clear Choice – helping you select the right dimmer, first time every time!

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.



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### 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.

In this instruction, a WARNING box alerts you to a hazard that, if ignored, could result in death or serious personal injury. A Caution box describes a hazard that can cause minor personal injury. The attention triangle tells you about actions that can cause damage to the product or property.

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.

Product Reference	Description
32ELEDM-WE	LED Dimmer, Standard Series, knob colour - White Electric. Suitable for all Clipsal wall plates with 30M apertures.
4062ELEDM-TR	LED Dimmer, Saturn 4000 Series, knob colour - Silver. Suitable for Saturn series plates. Note: Suitable for Saturn Zen with Z4062EDIM-KB accessory kit.



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.

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Trademarks

Clipsal is a registered trademark of Schneider Electric.

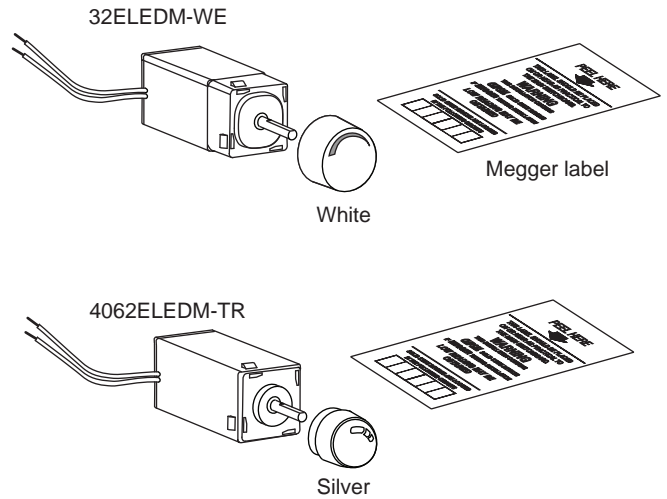
c-thru – The Clear Choice, is a registered trademark of Schneider Electric.

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### Features

The parts that are provided with your LED Dimmer are shown below:



### 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.

### Compatible Loads

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

LOAD SYMBOL	COMPATIBLE LOADS	32ELEDM-WE	32E450D
		PURPLE	TRANSPARENT
		LED DIMMER	UNIVERSAL DIMMER
		400W	450W
	* Dimmable LED Lighting with Electronic Transformers	YES	YES (300 W max.)
	Incandescent Lighting, Halogen/Dichroic 240 V Lamps	YES	YES
	Low Voltage Halogen/Dichroic Lighting with Electronic Transformers	YES	YES
	Low Voltage Halogen/Dichroic Lighting with Iron-core Transformers	NO	YES
	Small Motor Loads, Exhaust Fans, Ceiling Fans	NO	YES

\* Visit [clipsal.com/load](http://clipsal.com/load) for recommended loads, for other loads, contact supplier for compatibility advice.

Multiple low voltage lighting transformers can be used so long as the total lamp wattage does not exceed the maximum load rating of the dimmer.

Use only electronic transformers compatible with electronic switches/phase angle control dimmers as recommended by the manufacturer.

Some lamps may exhibit unexpected performance characteristics when cold. Dimming performance should improve after the lamp warms up. Advance the dimmer setting if needed.

### Incompatible Loads

Under NO CIRCUMSTANCES should the LED Dimmer be used for inductive load types such as low voltage lighting with iron-core transformers, fan motors or ceiling sweep fans. Failure to comply with this restriction will void any warranty associated with this product.

Exercise care when using dimmable linear fluorescent or compact fluorescent load types (Max. load 300W). Use only lamps/ballasts that are compatible with Trailing Edge phase angle control (lagging). The dimmer warranty is void when controlling incompatible load types as determined by Schneider Electric.

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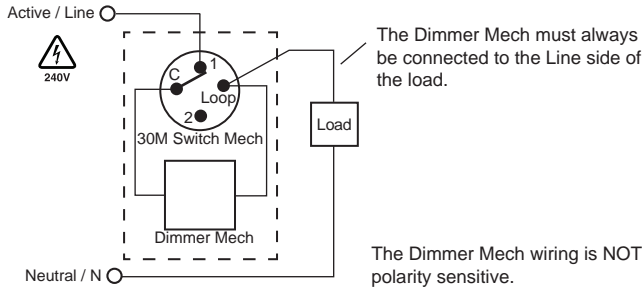
## Installation

### Wiring Details

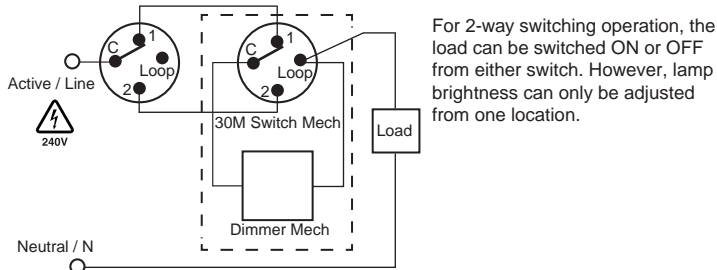
1. Disconnect power. Lock out and tag the relevant circuit at the main switchboard.
2. Remove existing switch from wall.
3. Connect the dimmer in accordance with the wiring diagrams.
4. Refit switch plate to wall and fit the dimmer knob to the shaft.
5. Reconnect power. Place the Megger information label 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



**!** Two or more dimmers MUST NOT be connected in parallel or series to control the same load from two different locations.

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## Operation

### Soft Start Feature

The LED Dimmer incorporates a soft start feature providing a noticeably 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.

Number of Dimmers	Maximum Load per Dimmer
1	400W
2	300W
3	200W

### 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

Parameter	Value
Supply voltage and frequency	220-240 V a.c., 50 Hz
Maximum load	400 W @ 240 V a.c., derate for multi-gang installations.
Minimum load	1 W
Dimming technology	Trailing edge phase control
Compatible loads for 32ELEDM-WE 4062ELEDM-TR	Dimmable LED lighting with compatible Electronic Transformers
	Incandescent lighting, Halogen 240 V lamps
	Low Voltage Halogen/Dichroic lighting with compatible Electronic Transformers
Incompatible loads	Low voltage lighting with iron-core transformers
	Fluorescent lighting
	Small motor loads, ceiling sweep fans
Operating Temperature Range	0 to 45°C
Operating Humidity Range	10 to 90% R.H.
Mounting Centres	84mm Australian Pattern Plate
Shipping Weight	25g Dimmer Mechanism Only
Safety Compliance	AS/NZS3100, IEC60669-2-1
EMC Emission Compliance	AS/NZS CISPR15:2002
Specifications Typical @ 240V a.c., 25°C	
No User Serviceable Parts Inside	

### 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

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Australia National Customer Care Enquiries: Tel 1300 2025 25  
Fax 1300 2025 56

New Zealand National Customer Care Enquiries: Tel 0800 652 999  
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