CLIPSAL 31LCDA Load Correction Device **by Schneider** Electric **Enhanced Dimming Control for LED and CFL** Lighting clipsal.com ELECTRICAL ACCESSORIES



Improved dimming performance of low-powered, energy-efficient lighting



Today, the lighting market offers consumers more choice than ever before. Low-powered, energyefficient lighting technologies, such as LEDs and CFLs, are now replacing traditional incandescent or halogen resistive load types. However, this shift has created a market-wide problem — compatibility issues when dimming these new non-resistive loads with phase-controlled dimmers.

Many lighting manufacturers label their LED and CFL loads as being dimmable or compatible, even though there are no test standards to confirm such claims. These non-resistive loads include complex electronic circuits in the LED drivers or CFL ballasts, which attempt to replicate the dimming behaviour of traditional resistive loads. If the LED drivers or CFL ballasts are not fully compatible with a particular dimmer, it will lead to erratic lighting behaviour.

The common indicators of less/non-compatible, energy-efficient lighting are: flickering, significantly smaller dimming range and a dim glow even when the load is in the off-state.

That's why Clipsal by Schneider Electric created a device that provides enhanced dimming control of low-powered, energy-efficient lighting. The Clipsal 31LCDA Load Correction Device is designed to improve the dimming performance of most dimmable LEDs/CFLs, when used in conjunction with Clipsal 2-Wire Dimmers. This affordable solution will compensate for the shortcomings seen in many of these complex and low-powered load types.

The next time you experience compatibility issues between a Clipsal 2-Wire Dimmer and a new LED/CFL load, the 31LCDA should be your first course of action.



Features and Benefits

- Stable dimming control: improved dimming performance and load stability across a wide range.
- Specifically designed for use with Clipsal 2-Wire Dimmers that use phase-controlled dimming technology (LE, TE or universal).
- Ensures off-state: reduces flicker or dim glow when the load is turned off.
- Lowers minimum load constraints: enhanced compatibility with low-powered, dimmable LED or CFL.







| Parameter | Description |
|-------------------------|--|
| Cat. no. 31LCDA | Load Correction Device, stand-alone, with 2 fly leads. For low-powered, dimmable CFL and LED lighting loads. For DIN rail and stand-alone dimmer channels. |
| Operating voltage range | 220 - 240V a.c. typical, 50Hz only. |
| Application | Indoor use only. |
| Suitability | Clipsal 2-Wire Dimmer products, DIN rail or stand-alone. |
| Dimmer types | Leading edge, trailing edge or universal. |
| Suitable loads | Dimmable CFL/dimmable LED with electronic control. |
| Characteristics | Dimming control stability with extra-low-power loads. Positive off-state for phase-controlled dimmer products. Stability over a wide dimming range. |
| Load rating | 450W for dimmable LED, 350W for dimmable CFL or rating of the dimmer (whichever is less). |

For more information about the Clipsal Load Correction Device, contact your local Clipsal Representative, electrical wholesaler or visit clipsal.com

Schneider Electric (Australia) Pty Ltd

33-37 Port Wakefield Road, Gepps Cross South Australia 5094

PO Box 132, Enfield Plaza, South Australia 5085

SEAU26847

National Customer Care Enquiries: 1300 2025 25

clipsal.com

Website: clipsal.com Contact us: clipsal.com/feedback

You can find this brochure and many others online in PDF format at: clipsal.com

Follow the links off the home page or access the following page directly: clipsal.com/brochures

Schneider Electric (Australia) Pty Ltd 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.

© 2013 Schneider Electric. All Rights Reserved. Trademarks are owned by Schneider Electric Industries SAS or its affiliated companies.

This document has been printed using FSC Mix Certified paper. ISO 14001 environmental management system in use at mill.