



LIDA-D AC Controller

Quick Start Guide



Creative Lighting Pty Ltd

June 2026

For support, visit creativelighting.com.au/manuals

LIDA-D AC Controller — Quick Start Guide

1. What's in the Box

- LIDA-D AC Controller module
- This Quick Start Guide

Note: The LIDA-D ships in **4-channel relay mode** — each of the four relays operates as an independent DALI device. This is the standard and DALI 2 certified configuration. Fan control mode is available as a factory option; contact Creative Lighting for more information.

For DT7 command tables, hysteresis threshold configuration, and full troubleshooting, download the **Reference Manual** from creativelighting.com.au/manuals.

2. Wiring Overview

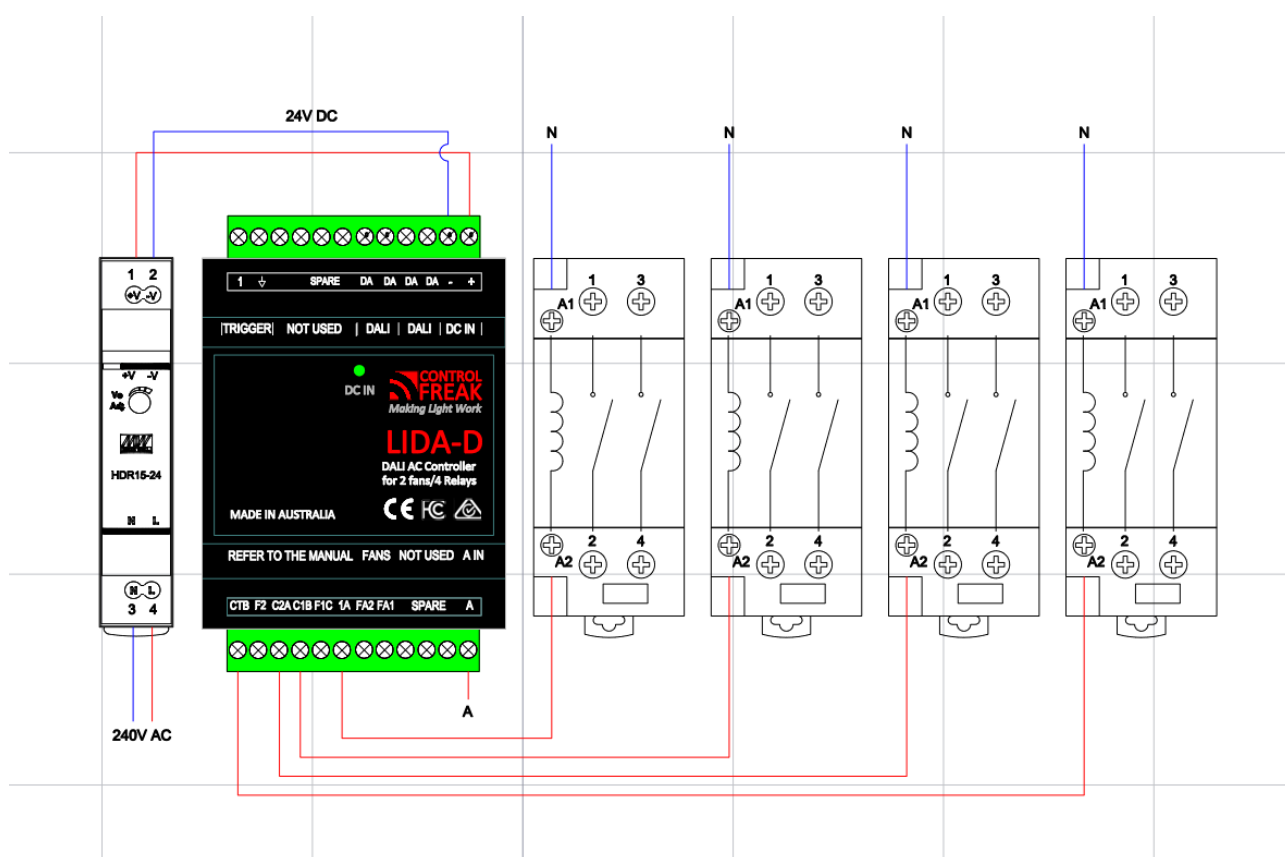


Figure 1: LIDA-D Connections

The external relays shown are required only for loads above the per-channel rating; loads within the rating connect directly to the channel output.

Each channel switches its load **directly** up to **120 mA, 250 V AC ($\approx 28.8 \text{ W}$ at 240 V AC)**. For larger loads, use the channel to switch an external contactor.

WARNING: The relay contacts switch mains voltage. Installation must be performed by a licensed electrician. Ensure all mains is isolated before wiring.

3. LED Indicators

The LIDA-D has four LEDs across the front face:

LED	Position	Function
LED 1	Leftmost	Heartbeat (slow blink = running) + Relay C2B state
LED 2		Relay C2A state
LED 3		Relay C1B state
LED 4		DALI bus activity + Relay C1A state
	Rightmost	

LED 4 flickers with each DALI message received. LEDs 1–4 illuminate when the corresponding relay is closed (load energised).

4. DIP Switch Settings

Configure **before** applying power. Changes take effect only on power-up.

Switch	Position	Meaning
DIP 4	ON (up)	Relay polarity: Normally Open (default)
DIP 4	OFF (dn)	Relay polarity: Normally Closed

5. Basic DALI Commissioning

This device is an **IEC 62386-208 DT7 Load Controller**. Each relay appears as a separate DALI address on the bus.

Step 1 — Set DIP 4 and apply power.

Step 2 — Initialise DALI Random Addressing. Using the **Control Freak ADDICT**, go to **DALI → Installation → Random Address**. The tool will discover all devices on the bus and assign short addresses automatically.

Step 3 — Confirm addresses. Verify the discovered devices in the commissioning tool and re-assign short addresses if required.

Step 4 — Test each address. Send **RECALL MAXIMUM** then **OFF** to each short address in turn. Verify both the relay and the mimic LEDs on the device respond correctly.

6. Basic Operation (Normal Mode)

Each relay switches ON and OFF according to the **DT7 hysteresis thresholds** configured via ENABLE DEVICE TYPE 7 commands. By default all thresholds are set to 1, so the relay closes at any level ≥ 1 and opens at level 0.

To configure custom switching points (e.g. a deadband to prevent chatter near the transition), set the switch-ON and switch-OFF thresholds using DT7 commands 225–228 — see the Reference Manual.

7. Factory Reset

The DALI **RESET** command restores most parameters to their factory defaults — scenes, groups, fade settings, power-on level, system failure level, and DT7 thresholds. **It does not clear the short address.**

To also clear the short address using the **Control Freak ADDICT**: go to **DALI → Installation → Set Address → CLEAR**.

To perform a full reset:

1. Send the **RESET** command to the device address.
2. In the ADDICT, go to **DALI → Installation → Set Address → CLEAR** to remove the short address so the device appears unaddressed on the next bus scan.

8. DALI 2 Certification



Figure 2: DALI-2 Certified

The LIDA-D is DALI 2 certified (DiiA Product ID 13041) for IEC 62386 Parts 101, 102, and 208 (DT7). Certification applies to the **4-channel relay mode** — the standard shipping configuration. For full certification details see the Reference Manual.

9. Full Technical Reference

Download from: creativelighting.com.au/manuals