



LIDA-D AC Controller

Technical Reference Manual



Creative Lighting Pty Ltd

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Overview

The Creative Lighting **LIDA-D AC Controller** is a DALI-controlled, four-channel relay switching device. It switches mains AC loads (lighting, fans, motors) under DALI bus control. The installer supplies a common mains Active to the **A** input, which the four channels switch through to their respective outputs (**C1–C4**); the load Neutral is wired directly to each luminaire. The switched mains side is galvanically isolated from the DALI bus and the low-voltage control electronics.

Each channel switches its load **directly** — no external contactor is required for loads within the per-channel rating (120 mA, ≈ 28.8 W at 240 V AC). An external relay or contactor is only needed for larger loads (see the Wiring Diagram).

The LIDA-D implements **IEC 62386-208 (DT7 — Load Controller, Switching Function)** and fully supports standard DALI commissioning, groups, scenes, fade rates, and memory bank extensions.

Important: The LIDA-D ships in **4-channel relay mode** — the standard and DALI 2 certified configuration. Fan control mode is available as a factory option; see the DALI 2 Certification section for details.

Key Features:

- Four independent SPST relay outputs (mains-rated)
- 4 independent DALI channels — one relay per DALI address
- **Normal relay mode:** simple binary on/off per DALI level
- **Fan control mode:** staged 3-speed fan control — contact Creative Lighting for more information
- DT7 configurable hysteresis thresholds (up/down switching with deadband)
- Configurable relay polarity (NO/NC via DIP 4)
- Optional 5-second kick start for fan mode (DIP 1)
- IEC 62386-208 DT7 full command set

Specifications

Parameter	Value
DALI standard	IEC 62386-101:2014, IEC 62386-208 (DT7)
Supply voltage	12–24 V DC (separate from switched mains)
Supply current (unloaded)	< 50 mA
Relay outputs	4 × PVT412S photovoltaic (PhotoMOS) relay, SPST-NO (or NC via DIP)
Relay contact rating	120 mA, 250 V AC max per output (≈ 28.8 W at 240 V AC)
DALI devices	4 (one per relay)
Operating modes	Normal relay; Fan control (contact Creative Lighting for more information)
Operating temperature	–20 °C to +50 °C
FW Version (Current)	V4.2.00
GTIN	09309004218000

Connector Pinout

Supply / control block:

Terminal	Signal	Description
+	24 V DC +	24 V DC positive supply
–	24 V DC –	24 V DC negative supply
DA	DALI bus	DALI bus connection, non-polarised
TRIGGER	Trigger	Not used

Terminal	Signal	Description
SPARE	—	Not used

Output block (left to right on the device):

Terminal	Signal	Description
C4	Channel 4	Relay channel 4 output (or fan-capacitor connection in fan mode)
F2	Fan cap 2	Fan capacitor connection
C3	Channel 3	Relay channel 3 output (or fan-capacitor connection in fan mode)
C2	Channel 2	Relay channel 2 output (or fan-capacitor connection in fan mode)
F1	Fan cap 1	Fan capacitor connection
C1	Channel 1	Relay channel 1 output (or fan-capacitor connection in fan mode)
A2	Fan output 2	Fan output
A1	Fan output 1	Fan output
A	Active in	Mains Active (line) input, switched to the channel outputs

In normal relay mode, **A** is the common mains Active input and **C1–C4** are the four switched channel outputs (one per load). The **A1**, **A2**, **F1** and **F2** terminals are used only in fan mode.

Installation

Wiring Diagram

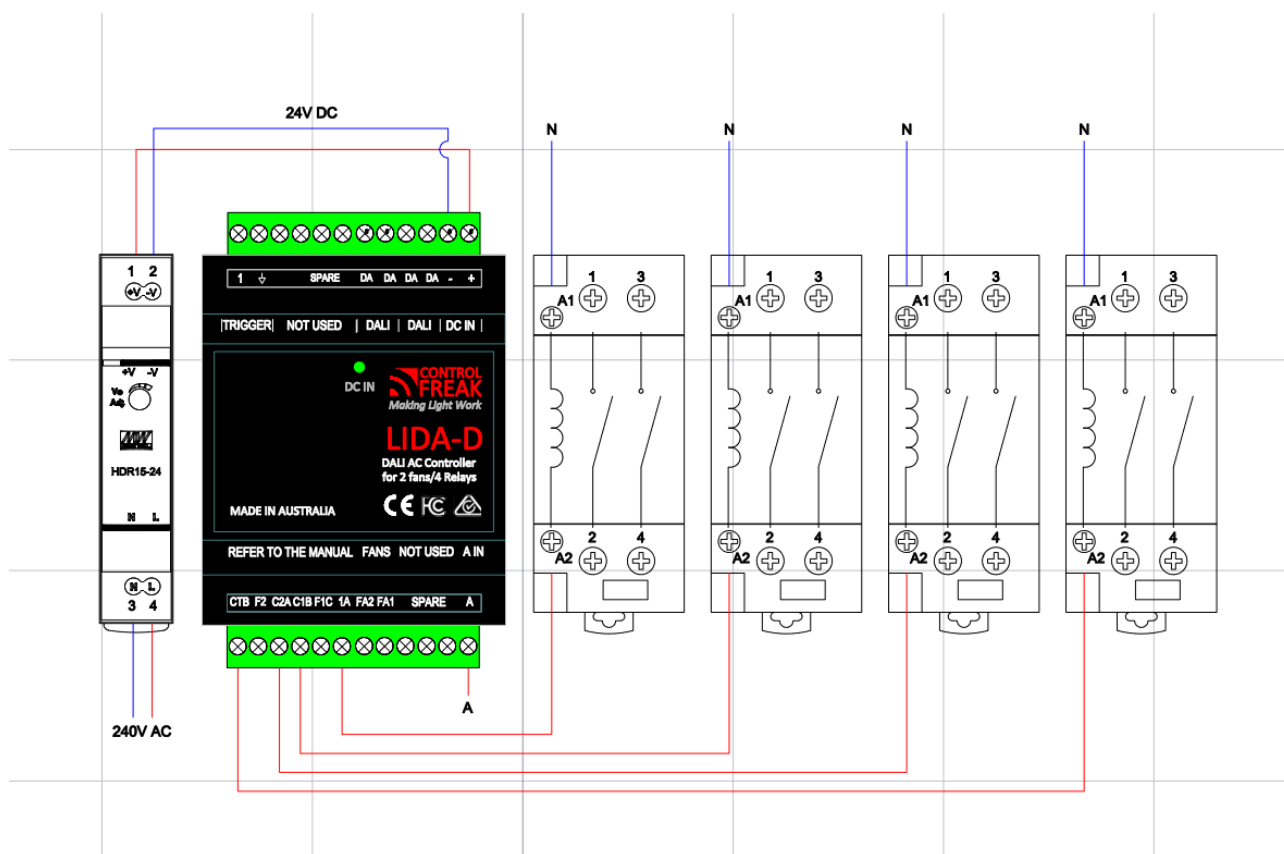


Figure 1: LIDA-D Connections

The diagram shows each channel driving an external relay/contactors — required only for loads above the 120 mA (≈ 28.8 W) per-channel rating. Loads within the rating connect directly to the channel output.

IMPORTANT: Connect N (neutral) permanently to each luminaire. The relay only switches the Active (line) conductor. This is standard practice for lighting circuits.

Relay Polarity

- **DIP 4 = ON (default, Normally Open):** Relay closed = load on; relay open = load off.
- **DIP 4 = OFF (Normally Closed):** Relay open = load on; relay closed = load off. Used for fail-safe “lights-on” installations.

In Normally Closed mode, the DALI level inversion is handled automatically — sending DAPC level 0 will energise the relay (opening the NO contact = activating the NC path).

DIP Switch Configuration

Set DIP 4 before applying power. The device reads DIP switch state only at power-up. Changes require a power cycle to take effect.

DIP Switch Overview

Switch	Function
DIP 4	Polarity: ON = Normally Open (default), OFF = Normally Closed

Normal Relay Mode

The LIDA-D operates as 4 independent DALI devices — one DALI address per relay. Each relay switches on/off in a simple binary manner based on its DALI arc level.

DALI Address	Relay
0	Relay 1
1	Relay 2
2	Relay 3
3	Relay 4

Fan Control Mode

Fan control mode is a factory configuration option — it is not selectable via DIP switches. To order LIDA-D units configured for fan control, please contact Creative Lighting.

In fan control mode the DALI arc level maps to staged relay combinations for 3-speed fan operation. Fan mode combines two PVT outputs through the fan capacitor, giving a switching capacity of ≈ 57.6 W:

DALI Level	Speed	Relay State
0–203	OFF	All relays open
204–229	LOW	Low-speed relay closed
230–243	MEDIUM	Medium-speed relay closed
244–254	HIGH	Both relays closed

WARNING: Never energise two speed relays simultaneously on motors with shared winding arrangements without appropriate motor protection. The firmware ensures only one speed relay is active at a time.

Kick Start (DIP 1 = ON, fan mode only)

When DIP 1 is ON on a fan-mode unit, the device enables a **5-second high-speed kick start** whenever a fan transitions from OFF to any running speed. This overcomes motor static friction before settling at the commanded speed. DIP 4 continues to select relay polarity (NO/NC) in fan mode.

Status LED Indicators

Four LEDs (LED1–LED4) reflect relay state during normal operation.

Normal Relay Mode

LED1 illuminates when Relay 1 is energised, LED2 when Relay 2, LED3 when Relay 3, and LED4 when Relay 4. DALI short addresses are assigned during commissioning and do not determine the LED mapping.

Fan Control Mode

In fan mode the relays per fan are driven independently. LED assignment reflects which speed relay is active:

LED	Relay	Energised when
LED1	Fan A lo-speed	MEDIUM or HIGH speed
LED2	Fan A hi-speed	LOW or HIGH speed
LED3	Fan B lo-speed	MEDIUM or HIGH speed
LED4	Fan B hi-speed	LOW or HIGH speed

DALI Activity and Heartbeat Blinks

- **LED1** blinks briefly on DALI bus activity, then restores to the state above.
- **LED4** produces a 50 ms heartbeat blink once per second, then restores.

DALI Commissioning

Refer to the shared DALI Commissioning chapter for bus requirements, auto-addressing, group and scene configuration, and troubleshooting.

Device-Specific Notes

- **Four DALI gear addresses:** The LIDA-D presents as 4 independent DALI addresses, one per relay.
- **DIP 4 polarity:** Changing DIP 4 does not affect DALI addresses or commissioning. The NO/NC setting is read at power-up and applied to all relay outputs. A power cycle is required for a polarity change to take effect.
- **Default settings after RESET command** (address is not affected):
 - Fade rate: 7
 - Fade time: 0 (instant switching)
 - Power-on level: 254 (all relays on at power-up)
 - System failure level: 254 (relays stay on if DALI bus lost)
 - All DT7 thresholds: default per IEC 62386-208

Standard DALI Commands

The LIDA-D implements the full IEC 62386-102 command set. Standard commands (level recall, scenes, groups, fade) operate the same as any DALI gear.

Refer to the Standard DALI Commands table in the DALI Commissioning chapter.

DT7 Device-Type Commands

These commands are available after the master sends **ENABLE DEVICE TYPE 7**. STORE commands require the repeat protocol (send twice within 100 ms).

Note: In DT7 mode, querying the arc power level returns **254** (relay energised) or **0** (relay open) — not the stored set-point. To read the actual set-point level, send **STORE ACTUAL LEVEL IN DTR** then query the DTR.

Command	Code	Direction	Description
QUERY REFERENCE SYSTEM POWER	224	Query	Returns NO (0xFF) — no AC reference measurement
STORE DTR UP SWITCH ON	225	Set	Set rising-edge switch-ON threshold from DTR
STORE DTR UP SWITCH OFF	226	Set	Set rising-edge switch-OFF threshold (hysteresis) from DTR
STORE DTR DOWN SWITCH ON	227	Set	Set falling-edge switch-ON threshold from DTR
STORE DTR DOWN SWITCH OFF	228	Set	Set falling-edge switch-OFF threshold from DTR
STORE DTR ERROR HOLD OFF	229	Set	Set error hold-off time from DTR (units: 100 ms)
QUERY_FEATURES	240	Query	Returns 0x00 (basic on/off; no optional features)

Command	Code	Direction	Description
QUERY_SWITCH_STATUS	241	Query	Returns 0x01 if relay energised, 0x00 if open
QUERY_SWITCH_ON_UP	242	Query	Return current switch_on_threshold_up value
QUERY_SWITCH_OFF_UP	243	Query	Return current switch_off_threshold_up value
QUERY_SWITCH_ON_DOWN	244	Query	Return current switch_on_threshold_down value
QUERY_SWITCH_OFF_DOWN	245	Query	Return current switch_off_threshold_down value
QUERY_ERROR_HOLD_OFF	246	Query	Return current error_hold_off_time value
QUERY_GEAR_TYPE	247	Query	Returns 0x00 (basic on/off relay, no modulation)
QUERY_EXTENDED_VERSION	255	Query	Returns 8

Hysteresis Threshold Operation

The DT7 thresholds create a dead-band around the switching point to prevent relay chatter when the DALI level is near the transition point.

Rising (increasing DALI level):

Level < switch_on_threshold_up → Relay OFF
 Level ≥ switch_on_threshold_up → Relay ON
 Level < switch_off_threshold_up → Relay stays ON (hysteresis)

Falling (decreasing DALI level):

Level > switch_off_threshold_down → Relay ON
 Level ≤ switch_on_threshold_down → Relay OFF
 Level > switch_on_threshold_down → Relay stays OFF (hysteresis)

Default threshold values: all thresholds = 1 (relay follows level 0/non-zero). The default behaviour is equivalent to a simple on/off: relay closes at level ≥ 1.

DALI Memory Banks

The LIDA-D implements two IEC 62386 memory banks accessed via READ MEMORY LOCATION.

Bank 0 — Device Identification (IEC 62386-102 §9.10) — read-only

Location	Content
0x00	Last accessible location (0x1A)
0x01	Reserved (0xFF)
0x02	Last supported bank number
0x03–0x08	GTIN (6 bytes, big-endian)
0x09–0x0A	Firmware version (major, minor)
0x0B–0x12	Device ID / serial (8 bytes)
0x13–0x14	Hardware version (major, minor)
0x1A	Channel number

All locations are read-only. Use READ MEMORY LOCATION (select bank 0 first via DTR).

Bank 1 — Asset Management (IEC 62386-251)

Location	Content
0x00	Last accessible location (0x25)

Location	Content
0x01	Indicator byte
0x02	Lock byte (0x55 = unlocked)
0x03–0x08	GTIN (48-bit, writable while unlocked)
0x09–0x10	Serial number (8 bytes)
0x11–0x12	OEM ID
0x13	Manufacture year
0x14	Manufacture week
0x15–0x16	Nominal input power (0.1 W units)
0x17–0x25	Hardware constants (read-only)

Locations 0x03–0x16 are writable via WRITE MEMORY LOCATION while the lock byte is 0x55.

Configuration Reference

Parameter	DALI Command / Method	Default	Range
Short address	PROGRAM SHORT ADDRESS (send twice)	0xFF	0–63, 0xFF
Max level	STORE DTR AS MAX LEVEL	254	1–254
Min level	STORE DTR AS MIN LEVEL	1	1–254
Power-on level	STORE DTR AS POWER ON LEVEL	254	0–255
System failure level	STORE DTR AS SYS FAILURE LEVEL	254	0–255
Fade time	STORE DTR AS FADE TIME	0	0–15
Fade rate	STORE DTR AS FADE RATE	7	1–15
Switch-ON threshold (up)	DT7 cmd 225	1	0–254
Switch-OFF threshold (up)	DT7 cmd 226	1	0–254
Switch-ON threshold (dn)	DT7 cmd 227	1	0–254
Switch-OFF threshold (dn)	DT7 cmd 228	1	0–254
Error hold-off time	DT7 cmd 229	0	0–254 (×100ms)

Symptom	Likely Cause	Remedy
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Troubleshooting

Symptom	Likely Cause	Remedy
Relay never closes	DALI level = 0 or below threshold	Send RECALL MAX; check threshold settings
Relay never opens	NC mode (DIP 4 = OFF)	NC mode inverts relay logic
Addresses lost after power cycle	EEPROM write failure	Check supply voltage; re-commission
Relay chatters near threshold	Level oscillating at switching point	Increase hysteresis gap (commands 225/226)
Fan speed doesn't stage correctly	Unit not in fan mode configuration	Contact Creative Lighting for fan mode units

DALI 2 Certification



Figure 2: DALI-2 Certified

The LIDA-D AC Controller is DALI 2 certified by DiiA (Digital Illumination Interface Alliance).

Attribute	Value
DiiA Product ID	13041
IEC 62386-101	Version 3.0
IEC 62386-102	Version 3.0
IEC 62386-208	Version 2.0 (DT7 — Switching Function)

Important: DALI 2 certification applies to **4-channel relay mode** — the standard shipping configuration. Fan control mode is **not included in the standard firmware** (it is a factory option) and has not been submitted for certification. Contact Creative Lighting if fan control operation is required.

Warranty and Safety

Refer to the *Safety Information and Warranty* chapter.

DALI Commissioning

Overview

DALI (Digital Addressable Lighting Interface, IEC 62386) is a two-wire, half-duplex digital protocol for professional lighting control. A single DALI bus supports up to 64 individually addressed gear devices (ballasts, LED drivers, relay modules, converters). Each device can also belong to up to 16 groups and store up to 16 scene levels.

All Creative Lighting products conform to IEC 62386-101 (general/system requirements) and IEC 62386-102 (control gear), plus the relevant part for their device type: Part 206 for DT5 supply units, Part 207 for DT6 LED gear, Part 208 for DT7 switching, and Part 209 for DT8 colour control.

DALI Bus Requirements

Parameter	Specification
Topology	Bus (daisy-chain or star, no termination required)
Max devices per bus	64 individual addresses
Cable	Twisted pair recommended; unscreened acceptable
Max cable length	300 m (see note below)
Bus voltage	9.5–22.4 V DC (supplied by DALI controller/master)
Polarity	Non-polarised (either wire order)
Max bus current	250 mA total (shared across all devices)
Signal rate	1200 baud (Manchester-encoded)

Cable length note: 300 m is the IEC maximum assuming a 1.5 mm² conductor pair. Smaller conductors or high device counts reduce the effective maximum. For runs over 100 m, use 1.5 mm² or larger.

Before You Begin

Ensure the following are complete before starting commissioning:

1. All DALI gear is physically installed, wired, and powered from the appropriate supply (mains or low-voltage, depending on the product).
2. DALI wiring is terminated at both the controller and all gear.
3. The DALI master (controller, gateway, or commissioning tool) is connected and powered.
4. You have a record of which physical device/luminaire corresponds to each installation position — this will be needed when assigning addresses.

Step 1: Verify Bus Integrity

Before addressing, confirm the bus is healthy:

- Check DALI bus voltage at the master output: should read 9.5–22.4 V with no devices connected, dropping slightly ($\approx 2\text{--}4$ V) with devices present.
- If bus voltage reads 0 V, check wiring continuity and that the master supply is powered and enabled.
- If bus voltage does not drop when devices are added, check that devices are wired to the DALI terminals (not mains or signal ground).

Step 2: Discover All Devices

Run your commissioning tool's **DALI device discovery** (auto-addressing) function. This assigns each device on the bus a unique short address (0–63); you can then remap or group the devices as required (see the following steps).

Discovery follows the standard DALI random-addressing procedure (IEC 62386-102 §9.11). Most commissioning tools — handheld programmers and building-management software — run the whole sequence automatically.

Note: Some commands require the **repeat** protocol — the master must send the same command twice within 100 ms. Creative Lighting firmware enforces this for all STORE and PROGRAM commands as required by the standard.

Step 3: Assign Short Addresses to Known Positions

After auto-discovery, devices have addresses in an arbitrary order. Use your commissioning tool to:

1. **Identify each device** — send the **IDENTIFY** command, or **RECALL MAXIMUM / MINIMUM**, so only that luminaire or output responds.
2. **Remap the address** as required to match the installation layout.

Step 4: Group Assignment (Optional)

Groups (0–15) let multiple gear respond simultaneously to a single command:

Command	Function
ADD TO GROUP n	Add this device to group n (0–15)
REMOVE FROM GROUP n	Remove this device from group n
RECALL MAXIMUM (group n)	Bring all group n devices to max level

Each device can be a member of up to 16 groups. Groups are non-exclusive.

Step 5: Scene Configuration (Optional)

Scenes (0–15) store a preset level per device. To store a scene:

1. Set each device to its desired level for the scene (DAPC or RECALL MAX/MIN).
2. Send **STORE SCENE n** to each device (or to a group) to save the current level as scene n.
3. Recall the scene later with **GO TO SCENE n**.

Scene levels are stored in non-volatile EEPROM and survive power cycling.

Step 6: Set Power-On and Failure Levels

Parameter	DALI Command	Description
Power-on level	SET MAX LEVEL / scene 0	Level at power-on (default: max)
System failure level	STORE DTR AS SYSTEM FAILURE	Level if DALI bus lost (default: max)
Maximum level	STORE DTR AS MAX LEVEL	Upper limit of arc power control
Minimum level	STORE DTR AS MIN LEVEL	Lower limit (must be $\geq$ physical minimum)

Best practice: Set the power-on and system failure levels to **MASK (255)** so each device resumes its last level instead of jumping to a fixed value after a power or bus interruption.

Step 7: Verify and Document

1. Send **RECALL MAXIMUM** and **RECALL MINIMUM** to each address — verify output is correct.
2. Recall each scene — verify levels match design intent.
3. Test each group — verify membership is correct.
4. Record the short address-to-luminaire mapping in your as-built documentation.

Fade Rate and Fade Time

DALI supports smooth level transitions controlled by two parameters:

Parameter	Range	Default	Effect
Fade Rate	1–15	7	Rate of change when fading (steps per tick)
Fade Time	0–15	0	Transition time for scene recalls

Fade time 0 means instant (no fade), unless an extended fade time is configured (see below). Rates and times

follow IEC 62386-102 Table 12.

Extended Fade Time: All Creative Lighting products also support the IEC 62386-102 *extended fade time*, which allows fade durations of up to **16 minutes** — well beyond the ~90 s maximum of the standard Fade Time. The extended fade time only takes effect when the normal **Fade Time is set to 0**. (With both set to 0, the transition is instant.)

Device Type Commands

After standard addressing, device-type-specific commands become available. The master selects the active device type with **ENABLE DEVICE TYPE n** before sending commands in the range 224–255:

Device Type	Standard	Product	Commands 224–255
DT5	IEC 62386-206	DALI 0-10V Converter	Output range, P_min
DT6	IEC 62386-207	SLAMMO (LED)	Fast fade, thermal
DT7	IEC 62386-208	LIDA-D (Switching)	Thresholds, hysteresis
DT8	IEC 62386-209	SLAMMO (Colour)	XY, CCT, RGBWAF

Troubleshooting DALI Commissioning

Symptom	Likely Cause	Remedy
No devices found during discovery	Bus wiring open or polarity error	Check continuity; DALI is non-polarised
Bus voltage low (< 9 V) with devices	Too many devices or short on bus	Check for wiring shorts; reduce device count
Device responds intermittently	Cable too long or conductor too thin	Reduce length; increase to ≥ 1.5 mm ²
Short address not retained after power	EEPROM write failure or voltage brownout	Check supply voltage; re-commission
Commissioning terminates early	Collision detected on bus	Re-run RANDOMISE; avoid simultaneous masters
Group command affects wrong devices	Group membership stored incorrectly	Re-send ADD/REMOVE GROUP commands

Safety Information and Warranty

Electrical Safety

This product operates in connection with mains voltage. **Installation must be performed by a licensed electrician** in accordance with all applicable local electrical codes and standards.

WARNING — Electric Shock Hazard. Disconnect and isolate all power supplies before installing, wiring, or servicing this product. Verify isolation with an approved voltage tester before touching any conductors.

WARNING — High Voltage. The mains supply wiring inside the enclosure or connected luminaire may be at lethal voltage. Keep hands clear of all uninsulated conductors.

WARNING — Permanent Installation. This product is intended for permanent installation in a fixed wiring system. Do not use with portable or extension-cord installations.

Installation Requirements

- Install in dry locations unless the product is specifically rated for damp/wet locations.
- Ensure adequate ventilation around the product; do not block air-flow slots.
- Observe the maximum load rating marked on the product label.
- Connect only loads that match the output type (resistive, LED driver, motor) as specified in the product datasheets.
- DALI wiring must comply with IEC 62386-101. Recommended: twisted pair, ≤ 300 m, 9.5–22.4 V DALI bus voltage supplied by the controller.

Compliance

This product has been designed and manufactured in accordance with:

- **IEC 62386** — Digital Addressable Lighting Interface
- **IEC 60669** — Switches for household and similar fixed electrical installations
- **AS/NZS 3820** — Essential requirements for electrical equipment (Australia/New Zealand)

Retain this manual and all associated documentation for the service life of the product.

Warranty

Creative Lighting Pty Ltd warrants this product to be free from defects in materials and workmanship for a period of **two (2) years** from the date of purchase by the original end-user, subject to the conditions below.

What Is Covered

Manufacturing defects and component failures under normal operating conditions within the specified electrical ratings.

What Is Not Covered

This warranty does not cover damage or failure arising from:

- Installation not in accordance with this manual or applicable electrical codes
- Operation outside the rated electrical specifications (voltage, current, temperature)
- Physical damage: crushing, flooding, fire, or other environmental events
- Unauthorised modification or repair
- Connection of incompatible loads or signal sources
- Normal wear of consumable parts (relays, fuses)

Making a Warranty Claim

Contact your authorised distributor or Creative Lighting directly with:

1. Proof of purchase (invoice or receipt)
2. A description of the failure and the conditions under which it occurred

Creative Lighting reserves the right to repair or replace the product at its discretion. Repaired or replaced products are warranted for the remainder of the original warranty period or 90 days from the date of repair, whichever is longer.

Limitation of Liability

TO THE MAXIMUM EXTENT PERMITTED BY LAW, CREATIVE LIGHTING PTY LTD SHALL NOT BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING LOSS OF REVENUE, LOSS OF DATA, PERSONAL INJURY, OR PROPERTY DAMAGE) ARISING FROM THE USE OR INABILITY TO USE THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE TOTAL CUMULATIVE LIABILITY OF CREATIVE LIGHTING PTY LTD IN CONNECTION WITH ANY CLAIM RELATING TO THIS PRODUCT SHALL NOT EXCEED THE PURCHASE PRICE OF THE PRODUCT.

Contact

Creative Lighting Pty Ltd

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