



by **Schneider** Electric



DALIcontrol

2 Line DALI Power Supply and Interface

DCDALCIP250-2



Installation Instructions

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1.0 Product Range

DCDALCIP250-2 2 line DALI power supply and interface

2.0 Description

The DCDALCIP250-2 is part of the DALIcontrol range and can only be connected to a DALI line.

The DCDALCIP250-2 provides 2 independent channels of DALI line power and can be interfaced with the entire range of DALIcontrol building controllers

The DCDALCIP250-2 can independently address and test a DALI line without the need for a building controller and can be used to switch on/off lighting on a DALI line

3.0 Wiring Instructions

The DCDALCIP250-2 is DIN rail mounted and should be mounted inside a mains rated enclosure.

In single channel operation DALI (A) must be used and Not DALI (B).

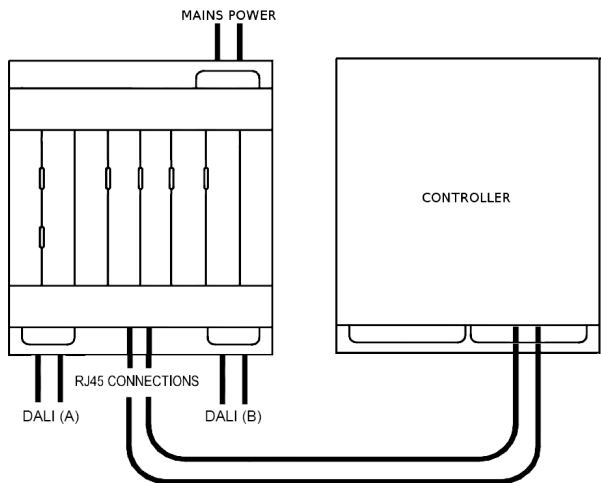
The DCDALCIP250-2 is connected to the building controller with a DCCABKIT2 patch cable. A patch cable is required for each DALI line

DALI is NOT SELV and wiring of the DALI lines needs to follow local wiring rules. Ensure that the DALI and mains wires are cable tied and secured into position away from the patch cables.

When wiring the DALI lines and main power connection care must be taken not to allow copper strands to enter the DIN unit's apertures.

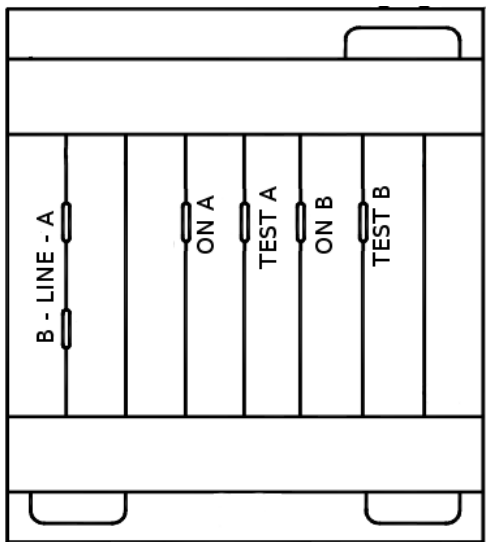
A maximum torque of 1.4Nm should be applied to the mains and DALI terminals.

The following diagram illustrates the connections and wiring of the DCDALCIP250-2



4.0 Functions & Status

The DCDALCIP250-2 has 4 user buttons and 6 Indicator LEDS that can assist in reducing the commissioning and fault finding time. The positioning of these buttons and LED's can be seen on the following diagram



A user can use these buttons address the line and check that the devices have a valid DALI connection.

The following table contains a list of the functions

Button	Action	Function
ON A	Short Press	Toggles line A lighting ON/OFF
ON A	Long Press	Addresses new devices on line A
TEST A	Short Press	Identify all DALI devices connected to line A Or stop running function
TEST A	Long Press	Identify all address devices on line A
ON B	Short Press	Toggles line B lighting ON/OFF
ON B	Long Press	Addresses new devices on line B
TEST B	Short Press	Identify all DALI devices connected to line B Or stop running function
TEST B	Long Press	Identify all address devices on line B

A long press can be activated by holding the button down for a period exceeding 10 seconds. When the function is activated the corresponding LED will flash.

The following information can be used to understand the visual feedback provided by the LED's.

LED	LINE	STATUS	FEATURE
LINE A	A	ON	Powered and ok
LINE A	A	OFF	No power or error
LINE A	A	SLOW FLASHING (1 Hz)	Failure or short
LINE A	A	FAST FLICKER	DALI Communication
ON A	A	ON	Default state. Lighting on
ON A	A	OFF	Lighting off
ON A	A	SLOW FLASHING (5 Hz)	Addressing
TEST A	A	ON	Fault

TEST A	A	OFF	Nothing running
TEST A	A	SLOW FLASHING (5 Hz)	Identify addressed devices
TEST A	A	FAST FLASHING (10 Hz)	Broadcast identify
LINE B	B	ON	Powered and ok
LINE B	B	OFF	No power or error
LINE B	B	SLOW FLASHING (1 Hz)	Failure or short
LINE B	B	FAST FLICKER	DALI Communication
ON B	B	ON	Default state. Lighting on
ON B	B	OFF	Lighting off
ON B	B	SLOW FLASHING (5 Hz)	Addressing
TEST B	B	ON	Fault
TEST B	B	OFF	Nothing running
TEST B	B	SLOW FLASHING (5 Hz)	Identify addressed devices
TEST B	B	FAST FLASHING (10 Hz)	Broadcast identify

5.0 Power Surges and Short Circuit Conditions

Care should be taken to ensure that DALI devices are not connected to mains voltage as this may result in damage to any connected DALI devices.

The DCDALCIP250-2 will indicate a DALI short on the DALI line if mains voltages are present. The short will remain on until the fault has been removed from the DALI terminal.

6.0 Megger Testing

Megger testing must never be performed on any DALI line cabling or terminals as it may damage connected devices and cause unpredictable device behaviour.

Megger testing of mains wiring of an electrical installation will not cause any damage to this device. Since this device contains electronic components, the installer should interpret megger readings with due regard to the nature of the circuit connection.

7.0 Programming and Commissioning

The DCDALCIP250-2 PSU units are designed to work with DALIcontrol products. Using software not provided by DALIcontrol may void any warranties applicable to the hardware.

For more information about commissioning and programming please refer to the DALIcontrol manuals.

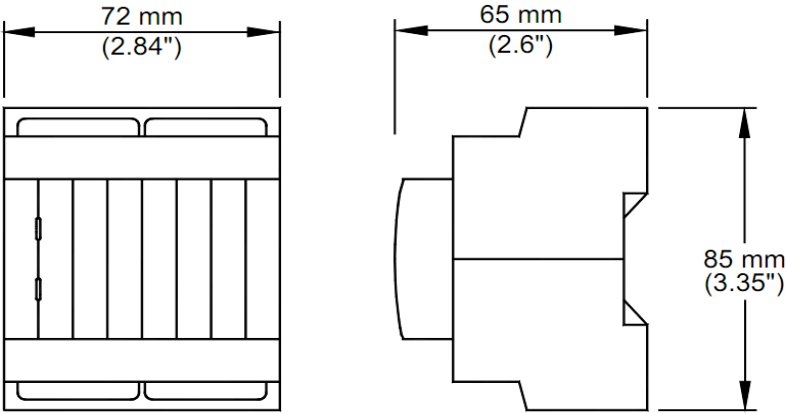
8.0 Product Specifications

8.1 Electrical Specifications

Catalogue No.	DCDALCIP250-2
Operating voltage	220-240VAC
Operating current	<0.086A
Operating temperature	0° to 50°C
Mounting surface	Mains rated enclosure
Dimensions – overall	72mm (W) x 85mm (L) x 65mm(H)
Weight	171grams
DALI Line Current (load) MAX	235mA
DALI Line Current (load) MIN	5mA
DALI Voltage	16 +/- 0.5V
DALI Lines	2
DALI Connection	Screw terminal for 1- 4mm ² □ cable.
Mains Connection	Screw terminal for 1- 4mm ² □ cable
Controller Connections	2 x RJ45 Sockets

Note: ‘□’ Indicates cross sectional area.

8.2 Dimensions



9.0 Compliance Standards


DECLARATIONS OF CONFORMITY

The DCDALCIP250-2 PSU complies with the following standards:

European Directives

Directives	Standard	Title
LVD – 2006/95/EC	EN 61347-1	Lamp control gear. General and safety requirements
	EN 61347-2-11	Lamp control gear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires
EMCD – 2004/108/EC	EN 55015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
	EN 61547	Equipment for general lighting purposes - EMC immunity requirements
	EN 55022	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
	EN 55024	Information technology equipment - Immunity characteristics - Limits and methods of measurement
	EN 61000-3-2	Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
	EN 61000-3-3	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection

Australian Regulations

Directive	Standard	Title
ACMA - EMC 	EN 55022	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
Safety – AS/NZS3820.	AS/NZS 61347-1	Lamp control gear. General and safety requirements
	AS/NZS 61347-2-11	Lamp control gear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires

10.0 Two-Year Warranty

DCDALCIP250-2 PSU carries a two-year warranty against manufacturing defects.

Warranty Statement

1. 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 Schneider Electric product, which the consumer has in the location where the product is sold.
2. The warrantor is Schneider Electric with offices worldwide.
3. This Schneider Electric product is guaranteed against faulty workmanship and materials for a period of two (2) years from the date of installation.
4. Schneider Electric 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.
5. This warranty is expressly subject to the Schneider Electric product being installed, wired, tested, operated and used in accordance with the manufacturer's instructions. Any alterations or modifications made to the product without permission of Schneider Electric might void the warranty.
6. Schneider Electric shall meet all costs of a claim. However, should the product that is the subject of the claim be found to be in good working order, all such costs shall be met by the claimant.
7. When making a claim, the consumer shall forward the Schneider Electric product to the nearest Schneider Electric office. Provide adequate particulars of the defect within 28 days of the fault occurring. The product should be returned securely packed, complete with details of the date and place of purchase, description of load, and circumstances of malfunction.
8. For all warranty enquiries, contact your local Clipsal sales representative. The address and contact number of your nearest sales office can be found at: <http://www.clipsal.com/locations> or by telephoning Clipsal CIS Technical Support 1300 722 247 (Within Australia) or 0800 888 219 (New Zealand)

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11.0 Technical Support and Troubleshooting

For further assistance in using this product, consult your nearest Clipsal or Schneider Electric Sales Representative or Technical Support Officer.

Technical Support Contact Numbers for Australia and New Zealand

Australia	1300 722 247 (CIS Technical Support Hotline)
New Zealand	0800 888 219 (CIS Technical Support Hotline)

Technical Support email: cis.support@clipsal.com.au