

**RoHS  
Compliant**



## Features

- Each control circuit can supply DALI power for as many as 50 DALI devices.
- The lighting system responds immediately and harmoniously when the brightness level is changed at either of the control devices.
- Innovative Function to Power DALI Bus While Connected to AC Mains
- Powered by DALI Bus while not Connected to AC Mains

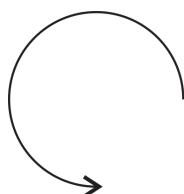
## Specifications

Designation	: DALI MCU
Power Connection	: L, N AC mains
Input Voltage	: 100V AC to 240V AC
Power Consumption	: 2.3W max.
DALI Connection	: DA+/DA-, max. 300m cable length, DALI power supply output current max 100mA Perm.
Cable Cross-section	: 0.5mm <sup>2</sup> to 1.5mm <sup>2</sup>
Working Temperature	: 0°C to +50°C
IP Rating	: IP20
Protection Class	: II
Size	: 80mm × 80mm × 53mm

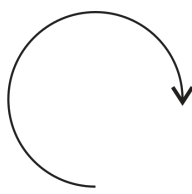
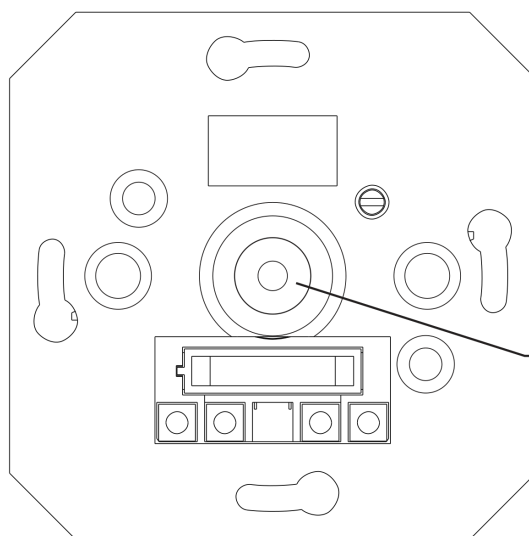
## Safety & Warning

DO NOT install with power applied to device DO NOT expose the device to moisture.

## Mechanical Specifications



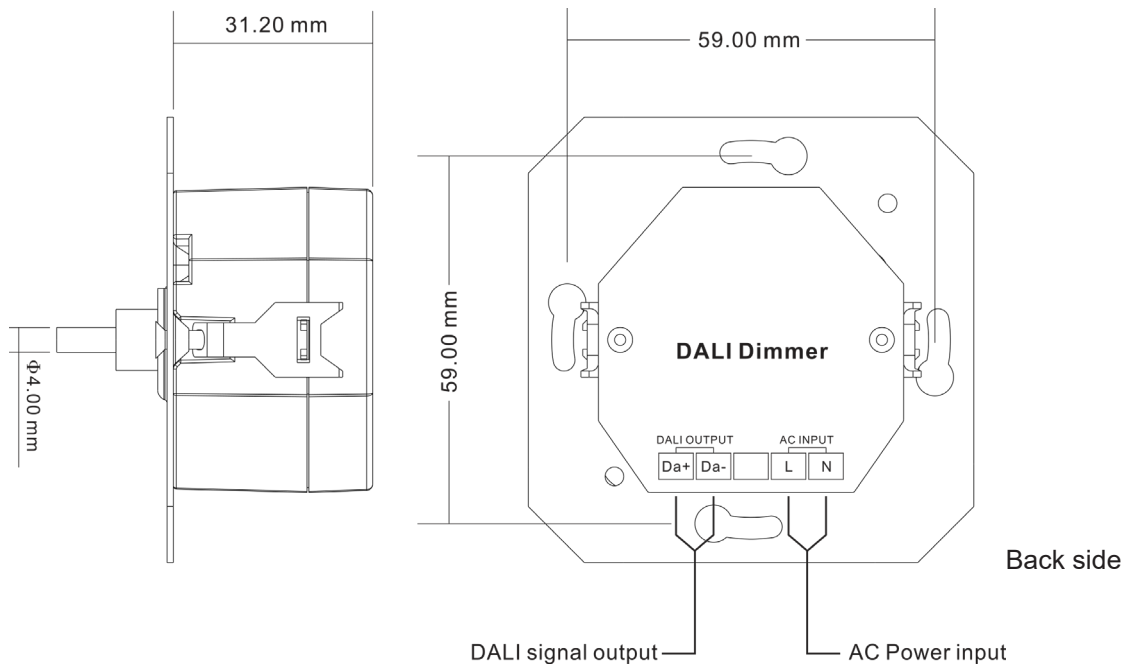
Rotate the knob counterclockwise to decrease light intensity from 100% to 1%



Rotate the knob clockwise to increase light intensity from 100% to 1%

Click the rotary knob to switch ON/OFF light

Front side



## Operation

This device is a DALI MCU with built-in DALI bus power supply which can power DALI bus while connected with 100V AC to 240V AC mains. It also can be powered by DALI bus while not connected with AC mains.

**There can be up to only 2 MCUs connect to AC 220V mains, the other MCUs powered by DALI bus.**

Each control circuit simultaneously affords the integration of as many as 100 DALI ECG and of up to 4 DALI MCU control devices (control points).

- **Switch ON/OFF**

Click the rotary knob to switch ON/OFF light.

- **Increase/Decrease Light Intensity**

Rotate the knob clockwise to increase light intensity from 0% to 100%, rotate the knob counterclockwise to decrease light intensity from 100% to 0%.

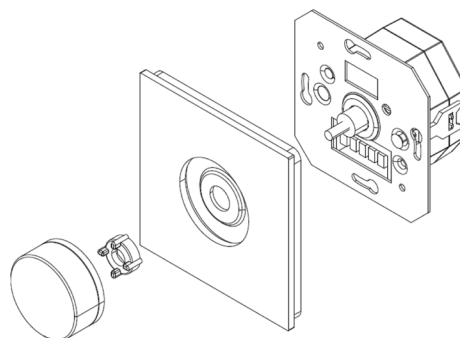
- **Set the minimum brightness value.**

Press and hold down the knob over 5 seconds until the light flashes, to set the current brightness value as the minimum brightness value for dimming, it is dimmable from this minimum brightness value to 100%.

- **Delete the minimum brightness value setting.**

Click the knob to switch off the light first, then press and hold down the knob over 5 seconds until the light flashes, the minimum brightness value will be deleted. It is dimmable from 1% to 100% then.

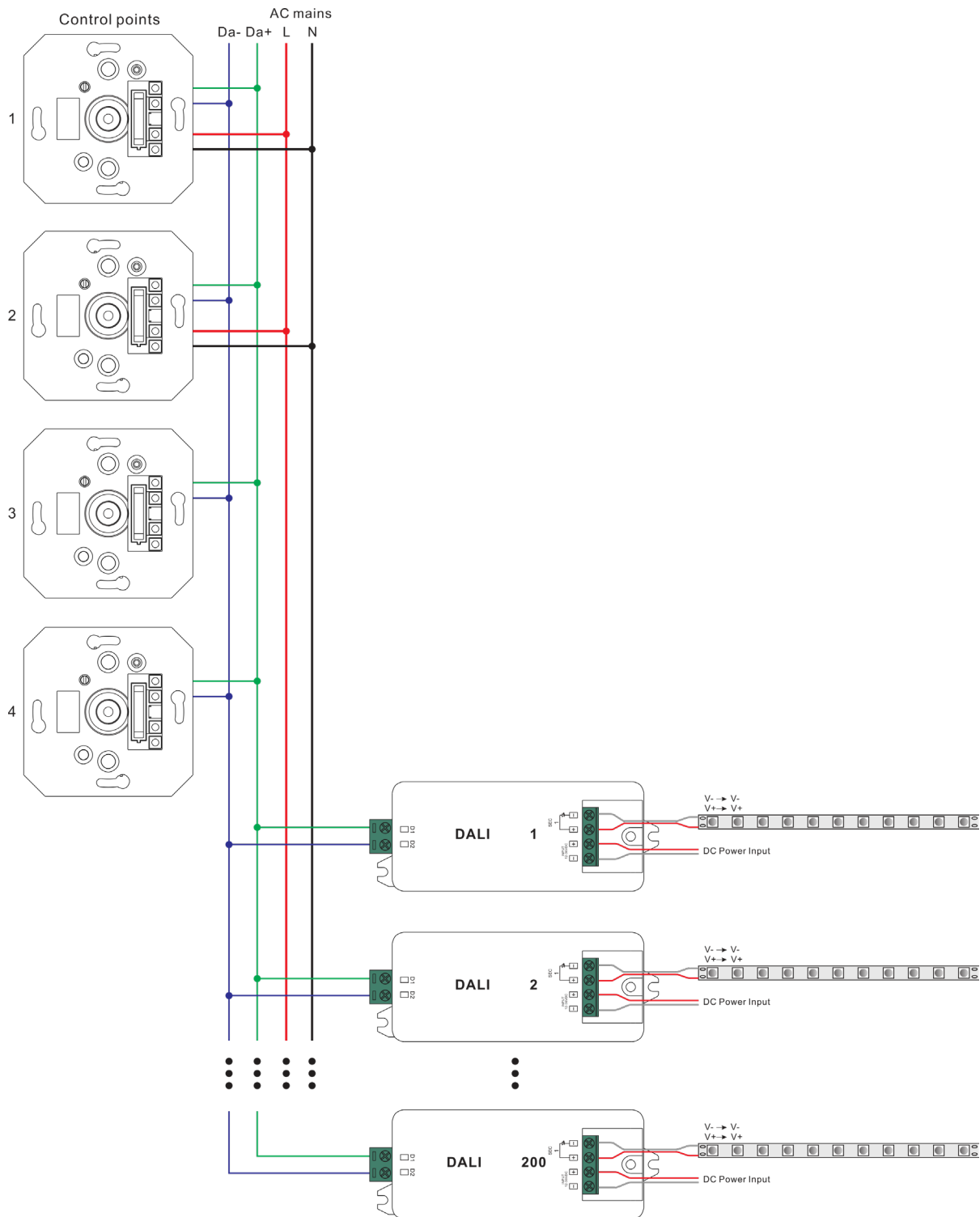
## Connecting Diagram



# Digital Rotary Dimmer

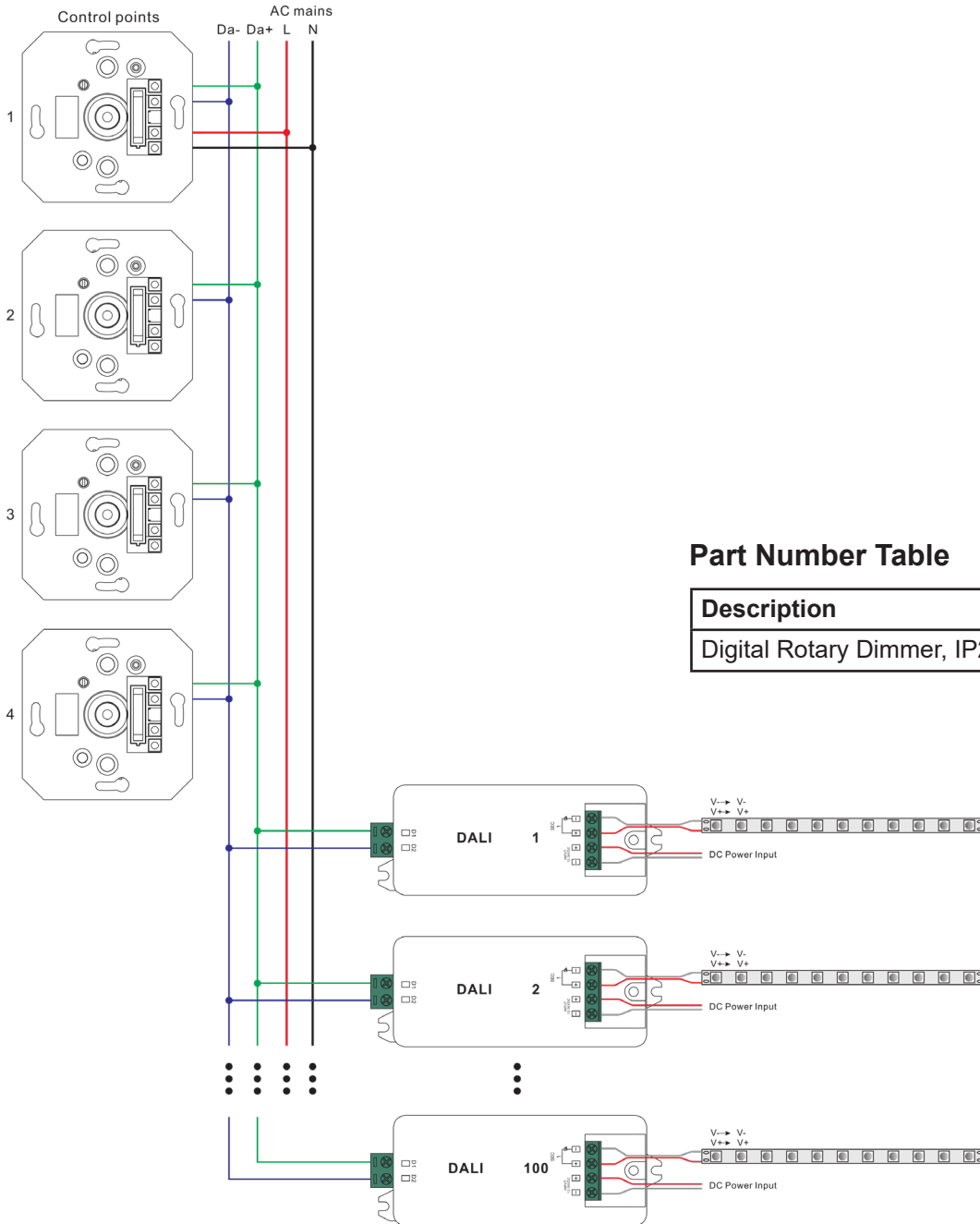
## Wiring scheme with 2 MCUs powered by AC mains to control up to 100 DALI ECG

To control up to 100 ECG with the setup, there is 2 MCUs connect to AC 220V mains.



## Wiring scheme to control up to 50 DALI ECG

To connect up to 50 ECG with the setup, there is only 1 MCU connect to AC 220V mains, the other MCUs powered by DALI bus. There can be max 2 MCUs connected to the AC mains in the same control circuit. It's suggested to have max 4 MCUs totally in the same control circuit.



### Part Number Table

Description	Part Number
Digital Rotary Dimmer, IP20	MP011879

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