

# LUMATECH

Linear Lighting Solutions

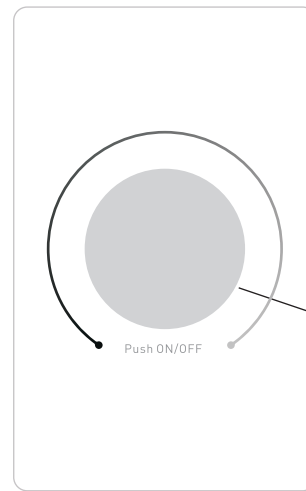
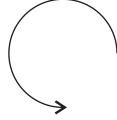
## LCDMSR-2400

### DALI MCU Digital Rotary Dimmer

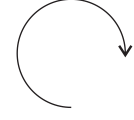
#### FUNCTION INTRODUCTION



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

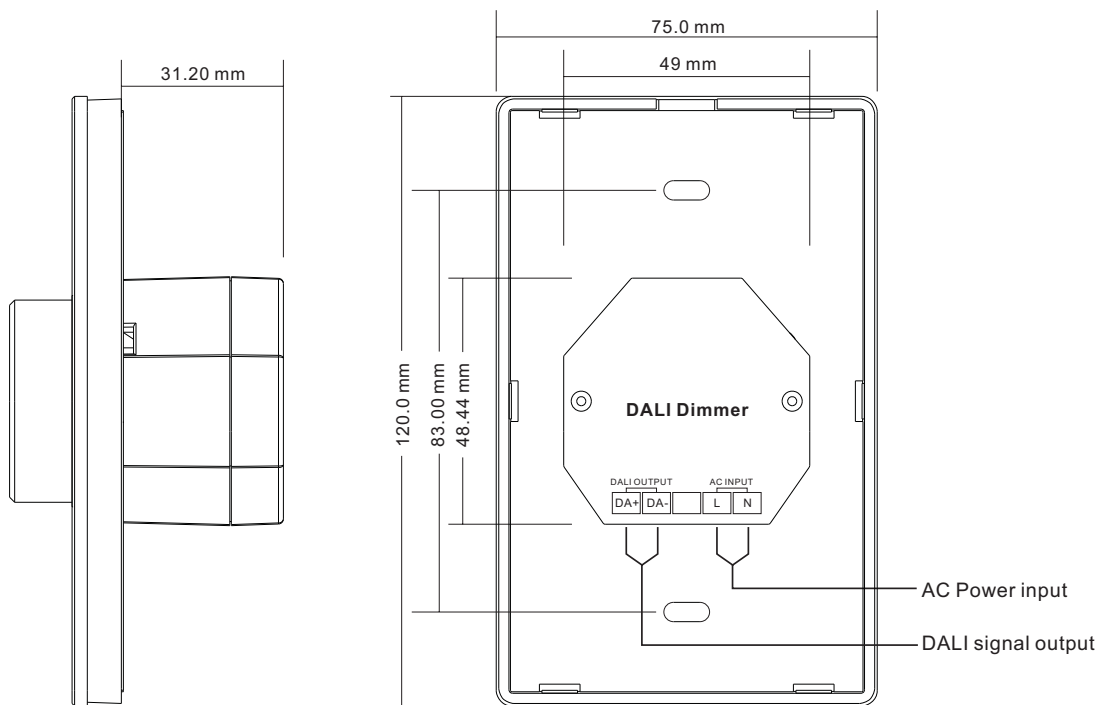


Rotate the knob clockwise to increase light intensity from 1% to 100%



Click the rotary knob to switch ON/OFF light

Front side



Back side

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## PRODUCT DATA

Designation	DALI MCU
Power connection	L, N AC mains
Operating voaltage	100-240V 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	0.5...1.5 mm <sup>2</sup>
Ambient temperature	0...+50 °C
Type of protection	IP 20
Protection class	II
Dimensions	75x120x53mm

- 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.
- All that while allowing for the required comfortable, easy and complete control over the lighting levels at any time.
- Innovative Function to Power DALI Bus While Connected to AC Mains
- Powered by DALI Bus while not Connected to AC Mains

## SAFETY & WARNINGS

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

## OPERATION

This device is a DALI MCU with built-in DALI bus power supply which can power DALI bus while connected with 100-240VAC 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 1% to 100%, rotate the knob counterclockwise to decrease light intensity from 100% to 1%.

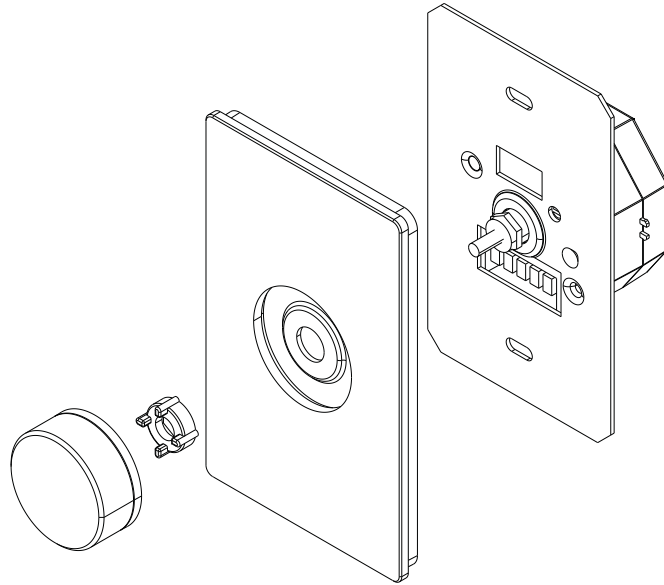
### Set the minimum brightness value

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%.

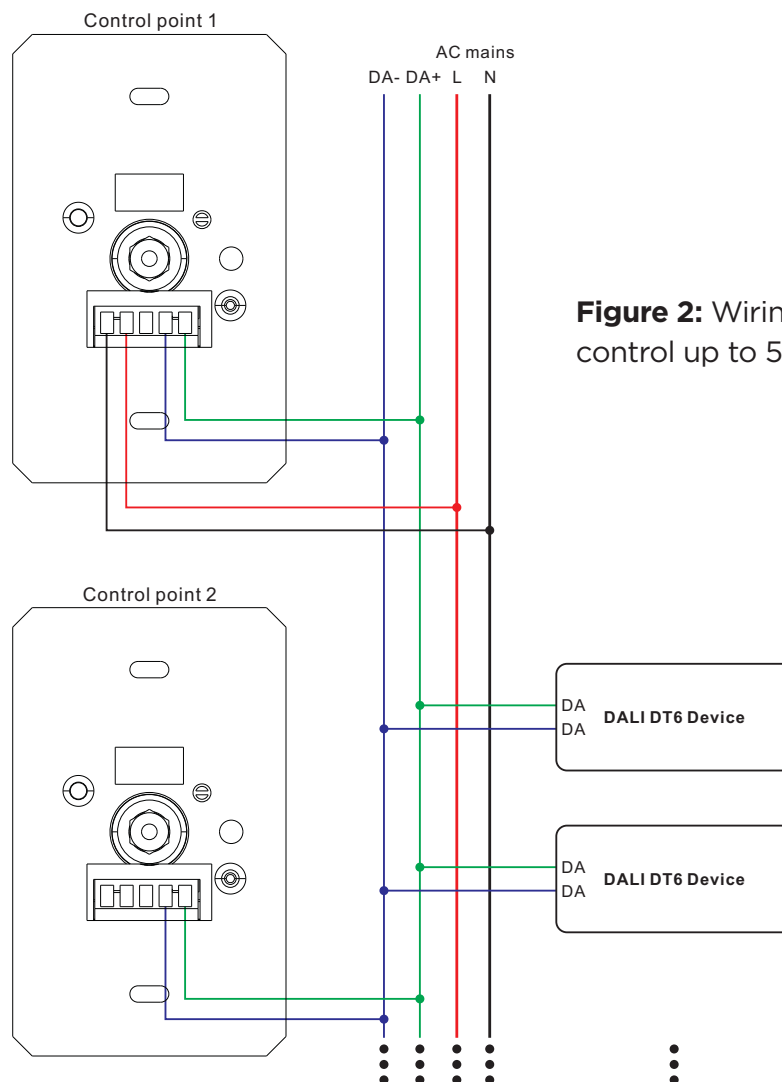
### Delete the minimum brightness value setting

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.

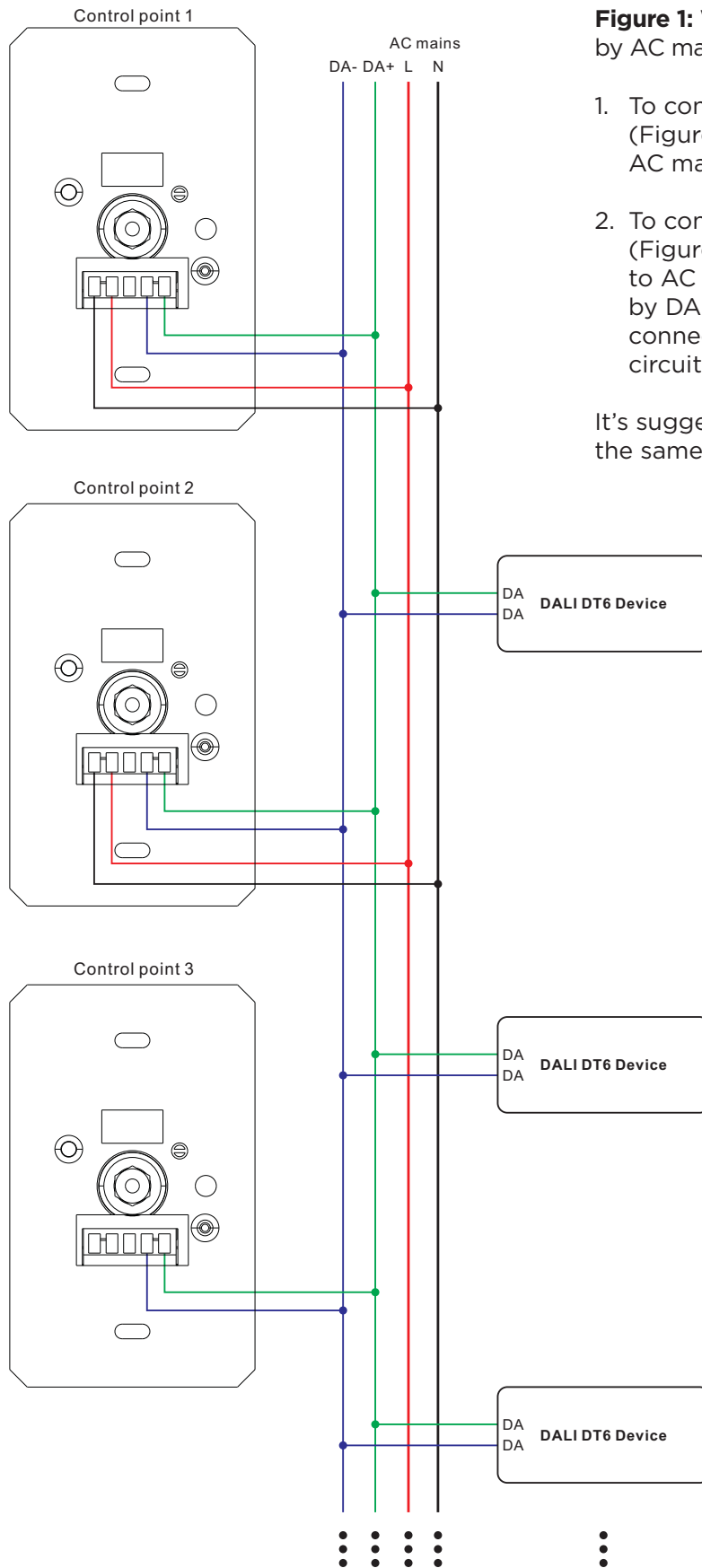
INSTALLATION



WIRING DIAGRAM



**Figure 2:** Wiring scheme to control up to 50 DALI ECG



**Figure 1:** Wiring scheme with 2 MCUs powered by AC mains to control up to 100 DALI ECG

1. To control up to 100 ECG with the setup (Figure 2), there are 2 panels connected to AC mains.
2. To control up to 50 ECG with the setup (Figure 1), there is only 1 panel connected to AC mains. Other panels are powered by DALI bus. Max. 2 DALI panels can be connected to AC mains in the same control circuit.

It's suggested to have max 4 MCUs totally in the same control circuit.