

DALI MCU digital rotary CCT Controller

09.2400RBC.04759

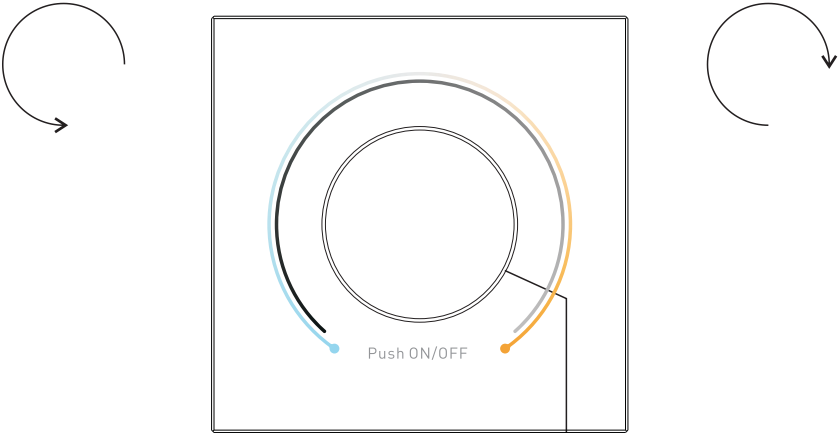


Important: Read All Instructions Prior to Installation

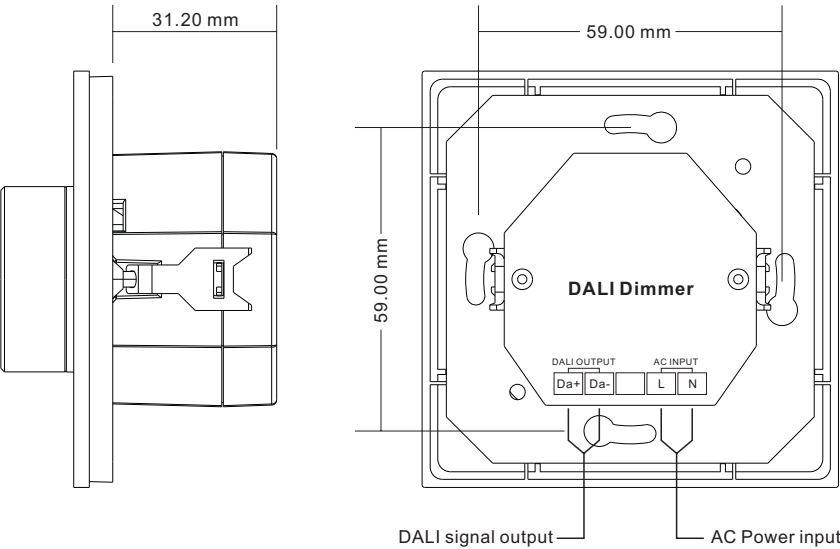
Function introduction

Rotate the knob counterclockwise:
1. Decrease light intensity from 100% to 1%(brightness mode).
2. Change color temperature from warm white to cold white(dual color mode)

Rotate the knob clockwise:
1. Increase light intensity from 1% to 100%(brightness mode).
2. Change color temperature from cold white to warm white(dual color mode)



Click the knob to switch ON/OFF.Press and hold down to adjust brightness to 100%. Double click the knob to switch between dual color mode and brightness mode.



Back side

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	1...4 mm2
Ambient temperature	0...+50 °C
Type of protection	IP 20
Protection class	II
Dimensions	80x80x53mm

- DALI DT8 CCT color controller, compatible with DT8 DALI system
- 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.

Switch dual color mode and brightness mode

Double click the knob to switch between dual color mode and brightness mode.

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 0% to 100% then.

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



2. To connect up to 50 ECG with the setup (Figure 2), 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.

The diagram illustrates the wiring for two DALI dimmers (labeled 1 and 2) and two DTS DALI CCT Dimmers. The top section shows the 'Control points' (DALI Dimmer) and 'AC mains' (Da-, Da+, L, N). The bottom section shows the 'DTS DALI CCT Dimmer' and 'LED strip' connections. The wiring is color-coded: blue for Da-, green for Da+, red for L, and black for N. The DTS DALI CCT Dimmer is connected to the LED strip via a 10-pin connector. The LED strip is labeled 'Connect with Dual Color LED Strip'.

This exploded view diagram illustrates the front door assembly. It includes a cylindrical lock cylinder, a door plate with a circular cutout, and the internal door mechanism. The door plate is shown with a circular cutout in the center, and the lock cylinder is positioned to be inserted into the door. The internal mechanism is shown with a handle and a lock cylinder, and the door plate is shown with a circular cutout in the center.