DALI MCU

Digital potentiometer
Operating instructions

Description

Purpose and application

The DALI MCU digital potentiometer controls up to 25 DALI electronic control gears and enables the manual operation of luminaires with a DALI interface.

The potentiometer is mounted in flush device boxes.

Function

The potentiometer converts rotations of and pressure on the rotary knob into DALI commands.

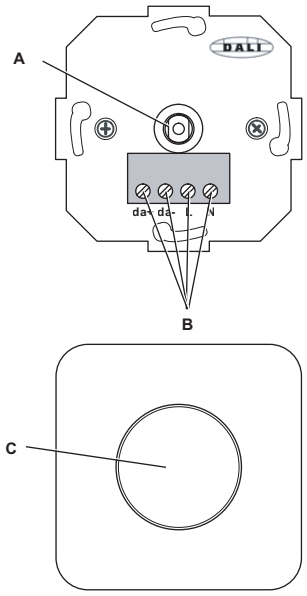
By switching multiple DALI MCU in parallel, the number of control locations or the number of controllable luminaires can be increased. If multiple potentiometers are switched in parallel, the commands of the potentiometer actuated last apply. Automatic synchronization makes it possible to change the control location without disturbing effects (e.g. brightness fluctuations).

The DALI MCU can be supplied directly from the DALI control line (= passive operation) or can deliver the required control current itself when connected to the mains voltage (= active operation).

Design

The potentiometer is made up of the following components:

- Rotary potentiometer (A)
- Connections (B)
  - Control line (da+, da–)
  - Neutral conductor (N)
  - Phase (L)
- Housing with rotary knob (C)



Operation

Symbols

	Rotary knob		Luminaire on
	Rotary knob		Luminaire off
O → I	Switch on		Luminaire flashes
I → O	Switch off	✓	Confirmation of the setting
	Short press (< 0.5 s)		Manual dimming
	Long press		Double-click

Switching luminaire on and off

Via short press on rotary knob.

Changing the brightness

To increase the brightness: Turn the rotary knob to the right.

To reduce the brightness: Turn the rotary knob to the left.

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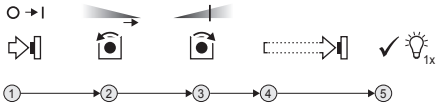
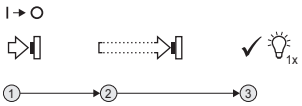
Operation (cont.)



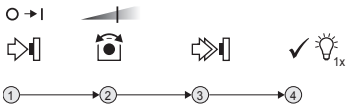
Defining the minimum brightness value

① Switch on if necessary.
② Turn the rotary knob to the left to the minimum brightness.
③ Turn the rotary knob to the required brightness.
④ Press the rotary knob and keep it there for approx. 10 s.
⑤ Confirmation: Luminaire flashes.



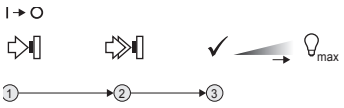
Deleting the minimum brightness value

① Switch off if necessary.
② Press the rotary knob and keep it there for approx. 10 s.
③ Confirmation: Luminaire flashes.



Defining the switch-on brightness

① Switch on if necessary.
② Set the desired brightness.
③ Double-click on the rotary knob.
④ Confirmation: Luminaire flashes.



Deleting the default value for the switch-on brightness

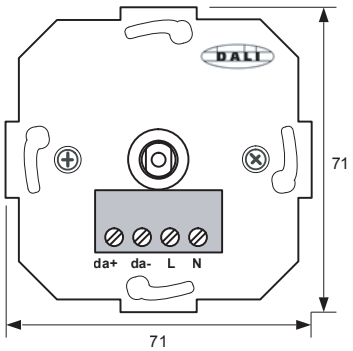
① Switch off if necessary.
② Double-click on the rotary knob.
③ Confirmation: Luminaire changes to the maximum brightness.

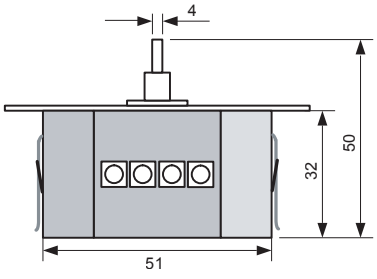
Appendix

Technical data

Operating voltage	230 V AC, 50-60 Hz
Maximum total length of signal line	300 m
DALI connection	Max. 25 DALI ECG with one active DALI MCU
Maximum power consumption	3 W
Permissible line cross section	1 – 4 mm²
Permissible ambient temperature	0 °C to 50 °C
Protection type	IP 20
Protection class	II
Dimensions	Flush-mounted part (Ø x H): 51 x 32 mm Mounting plate (L x W): 71 x 71 mm

Dimensions





The requirements as per EN 60928 und EN 61547 are fulfilled.

CE Conformity with the relevant EU directives is confirmed by the CE symbol.