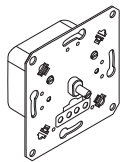


DALI Rotary Dimmer Tunable White with integrated power supply

Operating instructions



Art. no. MEG5144-0000

Necessary accessories

- To be completed with:
- Central plate with rotary knob
- Frame in corresponding design.

For your safety



DANGER

Risk of serious damage to property and personal injury, e.g. from fire or electric shock, due to incorrect electrical installation.

Safe electrical installation can only be ensured if the person in question can prove basic knowledge in the following areas:

- Connecting to installation networks
- Connecting several electrical devices
- Laying electric cables

These skills and experience are normally only possessed by skilled professionals who are trained in the field of electrical installation technology. If these minimum requirements are not met or are disregarded in any way, you will be solely liable for any damage to property or personal injury.

Dimmer introduction

With the DALI Rotary Dimmer White with integrated power supply (hereafter referred to as **dimmer**) you can switch and dim lamps with DALI-interfaces (Electronic Control Gear, "ECG").

Additionally you can set the colour temperature for lamps with DALI Device Type 8 for Tunable White according to IEC 62386-209 einstellen.

The installation takes place in an appliance box according to DIN 49073.

Product features:

- Active operation: if mains voltage is connected to the device, it supplies the control current for 26 DALI subscribers.
- Passive operation: if no mains voltage is connected, then the device is powered using the DALI voltage (counts as DALI subscriber) and serves as an additional control unit.
- Parallel switching of up to four active DALI dimmers with the option of supplying up to 104 DALI subscribers is possible.
- Saving of colour temperature limiting values and a basic and switch-on brightness.



Since faults can occur in combination with other DALI controls, it is thus not recommend.

Behaviour after a mains voltage failure

When the mains voltage returns, the lighting is switched to the brightness and colour temperature present before the mains voltage failed.

Installing the dimmer

Wiring the insert

Wiring example for an installation with active and passivedimmers

- 1 Connect the DALI Rotary Dimmer insert and DALI ECG referring to the example.



Respect the specifications of DALI ECG manufacturers.



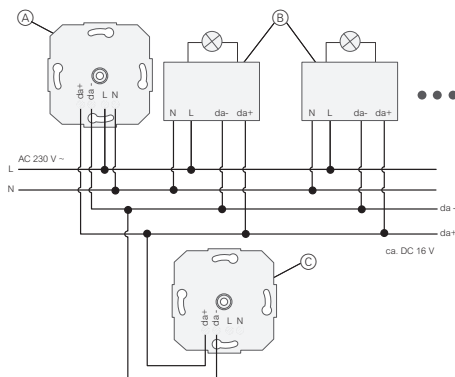
When wiring multiple DALI dimmers in parallel, ensure correct polarity!



Ensure that the control cable is of the appropriate type, cross-section and routing for the VDE specifications for 250 V cable, control voltage has basic insulation.

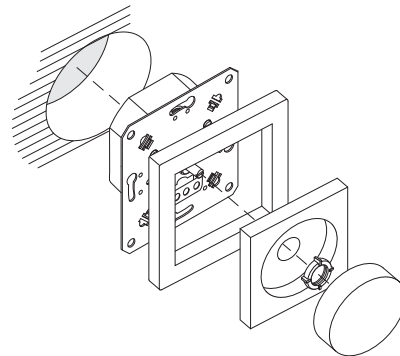


The control cable and load cable can be run in a shared cable, e.g. NYM-J 5x1,5 mm².



- Ⓐ DALI Rotary dimmer with connection to mains voltage: active operation
- Ⓑ DALI subscribers, e.g. DALI ECG, DALI Device Type 8 for Tunable White
- Ⓒ DALI Rotary dimmer without connection to mains voltage: passive operation

Mounting the dimmer



Setting the dimmer

Setting the basic brightness

The basic brightness should be set if turning the rotary knob at minimum brightness does not directly lead to an increase in brightness.

- ① Set lighting to minimum brightness.
- ② Turn the rotary knob to the point that where the brightness begins to increase.
- ③ Press the rotary knob for longer than 10 s.

The lighting briefly switches off and on again. The basic brightness is saved.

Setting the colour temperature limiting values

With this setting you can adjust the setting range of the dimmer to the colour temperature of the lighting.



When saving the colour temperature, you must ensure that the last turn of the pressed control knob is made to the left for the warmest light colour (W) and to the right for the coldest light colour (C).

- ① Turn pressed control knob to the left (W) until reaching the warmest light colour required, and hold it in this position for more than 10 s.

The lighting switches off three times and then switches on again. The warmest light colour is saved.

- ② Turn pressed control knob to the right (C) until reaching the coldest light colour required, and hold it in this position for more than 10 s.

The lighting switches off and on again three times. The coldest light colour is saved.

Deleting the basic brightness and temperature limiting values

- ① Switch off the lighting.
- ② Press the rotary knob for longer than 10 s.

The lighting briefly switches on to maximum brightness and then off again. The basic brightness and temperature limiting values are deleted.



DALI subscribers from different manufacturers may deviate from the acknowledgements given here.

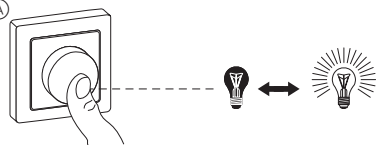
Operating the dimmer



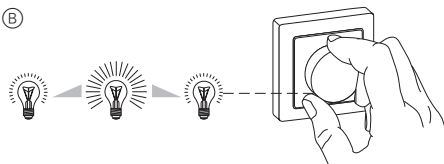
Operation can take place from multiple control units and always applies to all connected subscribers (DALI Broadcast)

Switching and dimming the lighting

(A)



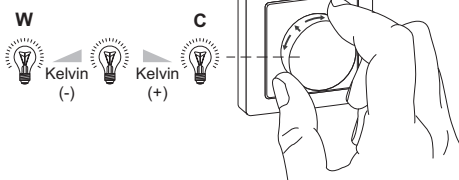
(B)



- (A) Press the rotary knob: the connected lamps are switched on or off.
- (B) Turn the rotary knob to the left or to the right: the connected lamps are dimmed darker or brighter.

Setting the colour temperature

(1)



- (1) Hold the rotary knob pressed and turn it to the left or to the right at the same time. The colour temperature changes:
 - Turning left (W): warmer light (decreasing the colour temperature)
 - Turning right (C): colder light (increasing the colour temperature)

Saving the switch-on brightness

If the lighting shall be always switched on with the same brightness, then this can be saved as a switch-on brightness.

- (1) Switch on the lighting.
- (2) Set the desired switch-on brightness.
- (3) Press the control knob briefly twice in succession (double-click)

The lighting briefly switches on to maximum brightness twice.

The switch-on brightness is saved.



If the lighting switches off after the double-click, then the time between the first and second presses was too long.
Repeat the procedure.

Deleting the switch-on brightness

- (1) Switch off the lighting.
- (2) Press the control knob briefly twice in succession (double-click)

The lighting switches on to maximum brightness after approx. 2 s.

The switch-on brightness is deleted.

What should I do if there is a problem?

The colour temperature cannot be changed.

- (A) Before saving the temperature limiting values, the control knob was turned in the wrong direction.
 - Delete basic brightness and colour temperature limiting values. Then repeat the saving procedure.
- (B) The controlled DALI lamp does not include a DALI Device Type 8 for Tunable White in accordance with IEC 62386-209.
 - Exchange the DALI lamp.

Technical data

Mains voltage:	AC 230 V ~, 50/60 Hz
Power consumption:	max. 2 W
Ambient temperature:	-5 bis +45 °C
Nominal voltage DALI	16 V DC (typical)
Output current:	max. 52 mA
Number of DALI subscribers:	max. 26
Number of active DALI	max. 4
Rotary dimmers:	
Colour temperature setting:	2000 - 10000 K
Connecting terminals:	Screw terminals for max. 4 mm ² (single stranded)



Dispose of the device separately from household waste at an official collection point for electrical waste. Professional recycling conserves raw material reserves and ensures that all regulations regarding the protection of health and the environment are complied with.

Schneider Electric GmbH c/o Merten

Gothaer Straße 29, 40880 Ratingen

www.merten.com

www.merten-austria.at

Customer care centre:

Phone: +49 2102 - 404 6000