

CUPOWER

BORN TO BE LIGHT.



Instruction manual PUSH

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1. Operating conditions and operation (DT6)

1.1 For all drivers produced until 09/2022

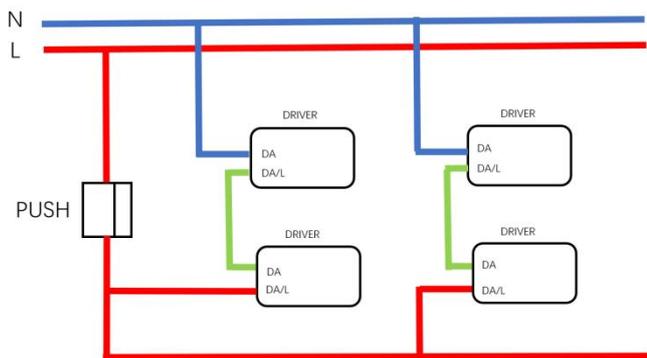
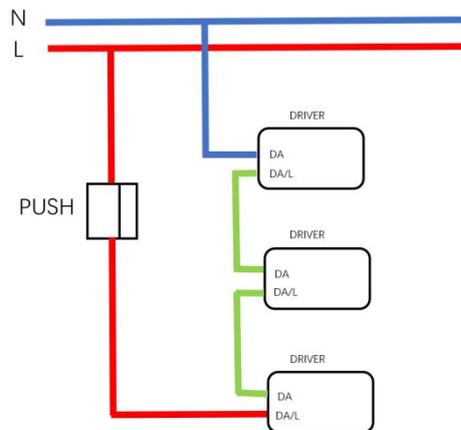
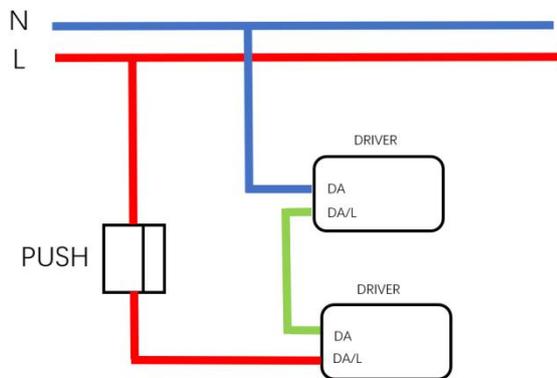
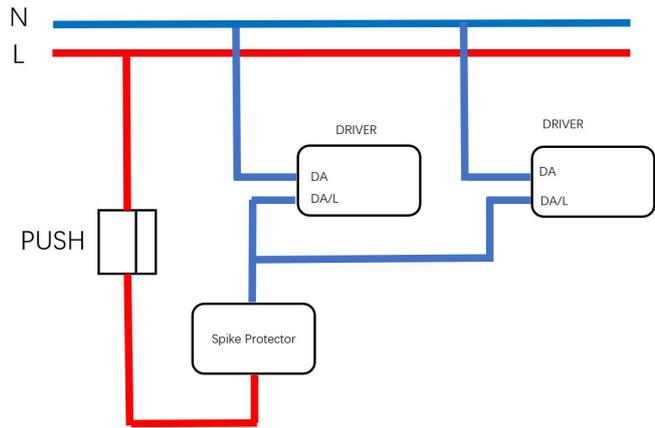
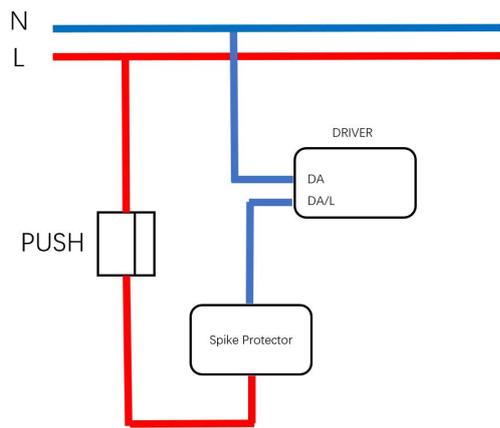
- Switch driver output ON/OFF: short-press (0,1...0,5 s).
- Dim driver up/down: long-press (> 0,5 s). The dimming direction is changed with each long-press.
- Reset: Long-press when driver output is OFF. Driver switch on at 1% and fade up until the switch is released.
- Synchronization: Long-press (> 5 s), short-press (0,1-0,5 s) and long-press (> 5 s).
- Definition: short-press: 0.1...0,5 s, long-press: > 0,5 s.
- Installation: maximum 20 drivers and cable length of 25 meters for one push-dim switch.

1.2 For all drivers produced from 10/2022

- Switch driver output ON/OFF: short-press (0,1...0,5 s).
- Dim driver up/down: long-press (> 0,5 s). The dimming direction is changed with each long-press.
- Default level setting: double click when the output is on.
- Delete the default level: double click when the output is off.
- Mains power on level: the power on level is last power off level.
- Short press turn on level: default level or last output level (if no default level defined).
- Fading up from minimum level: long press when output is off.
- Reset: Long-press when driver output is OFF. Driver switch on at 1% and fade up until the switch is released.
- Synchronization: Long-press (> 5 s), short-press (0,1...0,5 s) and long-press (> 5 s).
- Definition: short-press: 0,1...0,5 s, long-press: > 0,5 s.
- Installation: maximum 20 drivers and cable length of 25 meters for one push-dim switch.

2. Wiring diagrams (DT6)

In case of operating only one driver connect to PUSH-DIM switch or drivers wiring in parallel, please use a Spike Protector (e.g. XZ-DALI-A).



3. Operating conditions and operation (DT8)

3.1 Additional information

- The product works in DALI mode by default and is enabled in PUSH mode by pressing and holding the Push-DIM button for more than 1 s.

- The PUSH mode can be switched to DALI mode by means of any valid DALI command.

3.2 Push operation in DT8 Tunable White mode

Working mode

- Mode 1: When the ECG is switched on (AC on), the state (brightness/colour temperature/standby) at the time of the last switch-off is executed.
- Mode 2: The ECG is switched on by first executing the state at the last switch-off and then executing the stored brightness/colour temperature values at the subsequent Push-DIM short press to switch on.

Push-DIM operation

- Short press: A button press < 0.5 s is a short press, to turn the light on/off once.
- Long press: button press > 0.5 s for long press, when long pressed the brightness will adjust upwards from the current value to 100% and hold, long press again, after holding for 4 s it will adjust downwards from 100% to 1% and hold, long press again, after holding for 4 s it will adjust upwards from 1% to 100% and hold until the button is released. The ECG fades upwards each time it is switched on and changes direction each time it is long pressed.
- Double-click: two consecutive short presses with an interval of < 0.4 s. Double-click when the light is on to save the current brightness value, the ECG enters brightness mode 2 and the light flashes twice as a reminder. When in standby (Push-DIM short press to switch off the light) double click PUSH-DIM/CCT button to delete the current brightness value/color temperature, the ECG enters working brightness mode 1 and the light flashes twice as a reminder.
- Synchronize: Long press (to turn on all control gear, brightness may be different, please ensure that the current brightness value has been deleted) -> Short press (to turn off all control gear at the same time) -> Long press (to turn up the brightness of all control gear synchronously from 1%).

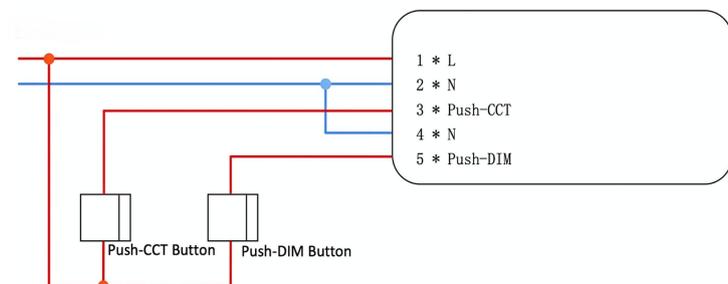
Note

- If you need to synchronize both brightness and color temperature, please delete them first and set sequentially according to the colour temperature and brightness sync setting instructions.

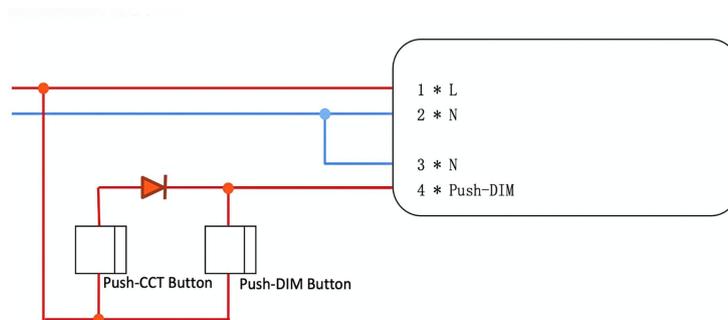
4. Wiring diagrams (DT8)

PUSH switch connection in the DT8 driver

4.1 General



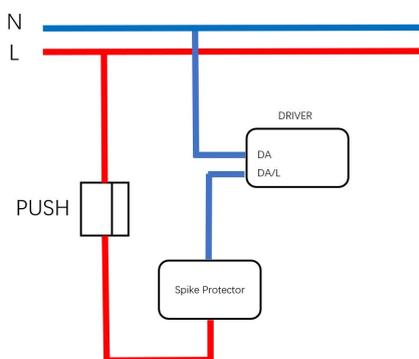
4.2 Special (RID CCCI Series)



5. Spike protector

5.1 Background

The high voltage spike on PUSH-DIM wiring has negative impact to the DALI circuit. A resistor in series with the PUSH-DIM button can damping the oscillation and limit the current.



5.2 Electrical Data

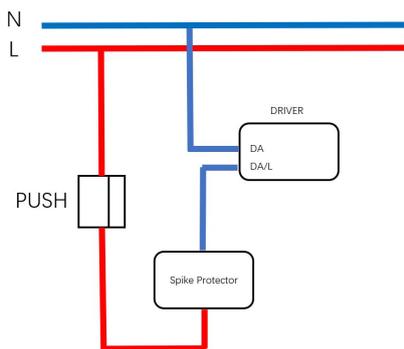
Input voltage: 230V, 50/60Hz

Input voltage range: 0...300Vac

Resistance: 200...300 OHM at room temperature

Operating temperature range: -20...65 C

5.3 Dimensions



6. Technical Restrictions

Electronic devices can be damaged by high voltage. This has to be considered during the routine testing of the luminaires in production.

To avoid spikes from switches please consider devices with debounced switches. For keeping several luminaires synchronized we recommend DALI repeater in larger applications.

According to IEC 60598-1 Annex Q (informative only!) or ENEC 303-Annex A, each luminaire should be submitted to an insulation test with 500VDC for 1 second. This test voltage should be connected between the interconnected phase and neutral terminals and the earth terminal. The insulation resistance must be at least 2 M Ohm.

As an alternative, IEC 60598-1 Annex Q describes a test of the electrical strength with 1500 VAC (or 1,414x 1500 VDC). To avoid damage to the electronic devices this test must not be conducted.

7. CAUTION

- For five-pole wiring the neutral conductor must be connected to DA/N. This prevents 400V being applied between adjacent terminals if a different phase is used for the control input.

- Glow switches are not approved for controlling PUSH DIM. Glow switches may cause the LED driver to spontaneously switch on or off or make sudden change in the dimming value.
- The luminaire manufacturer is responsible for its own luminaire design and has to comply with all relevant safety standards.



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