

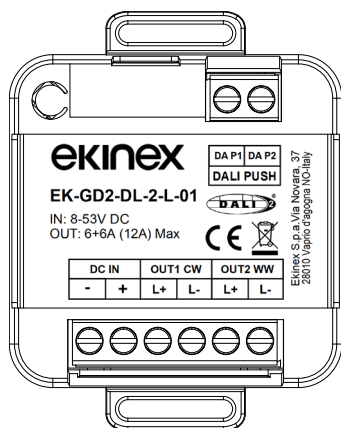
DALI2 12/24/48 Vdc 2-channel multifunctional dimmer

Code: EK-GD2-DL-2-L-01



Data sheet STEKGD2DL2L01_EN

DALI bus device with 2-channel 12/ 24/ 48 Vdc voltage supply, suitable for controlling PWM flicker free dimmable LED strip and LED loads.



Description

The ekinex device® The EK-GD2-DL-2-L-01 is an ultra-low voltage 12, 24 and 48 Vdc 2-channel PWM dimmer of single-colour, Tunable White or DimToWarm PWM dimmable LED strip and LED loads. The dimmer can be controlled via DALI1 or DALI2 bus, or push-button control (N/O - normally open) at mains voltage or 12 / 24 / 48 Vdc. The operating modes of the device can be selected via onboard dip switches. If the input type is changed, the supply voltage must be removed and reset. The dimmer is also equipped with a signal LED to identify the correct power supply. The dimmer must be powered according to the polarity indicated in the diagrams in this data sheet, via the DC IN (+ and -) terminals. If the power supply polarity is reversed, the device will not be damaged. The LED load must be connected using terminals OUT1 and OUT2 (L+ and L-).

Main functional characteristics

- Dimmer with isolated Push input, DALI2 DT6, DT8, DimToWarm
- DALI2 DT6 and DT8 modes high compatibility for voltage-current converters
- LED indicating correct power supply
- Power supply and output terminals for cables 0.05 ÷ 3 mm² (30÷12 AWG)
- PWM frequency: 390Hz-3000Hz
- Protection from: reverse polarity, short circuit, open circuit, voltage spikes
- Power output: 72W @12Vdc, 144W @24Vdc, 288W @48Vdc for each channel
- UL Printed Circuit Board

Technical Data

Inputs

- Constant input voltage: 12 / 24 / 48 Vdc
- Supply voltage: min: 8 Vdc ... max: 53 Vdc
- Command: DALI2 / Push
- DALI2 bus input compliant with IEC 62386



Warning! If the input type is changed, the supply voltage must be removed and restored.

Outputs

- PWM voltage output 12 / 24 / 48 Vdc
- Current per output channel: 6A
- Outputs: 2
- Rated power: 72W @12Vdc, 144W @24Vdc, 288W @48Vdc
- Type of load: single-colour / Tunable White / DimToWarm

Dimming

- PWM frequency: 390Hz-3000Hz

Environmental conditions and other characteristics

- Operating temperature: - 20 °C ... + 50 °C
- Storage temperature: - 40 °C ... + 60 °C
- Max. rated casing temperature (tc): 85°C
- Relative humidity: 93% non-condensing
- Degree of protection IP10 (luminaire installed)
- Wiring power supply and output terminals 0.05 ÷ 3.0mm² (30 TO 12 AWG)
- Cable stripping: 5.0 ÷ 6.0 mm
- Plastic casing
- Luminaire for flush or panel mounting (with DIN rail accessory)
- Safety Class II
- Weight 35 g
- Dimensions (WxHxD): 49 x 49 x 23 mm

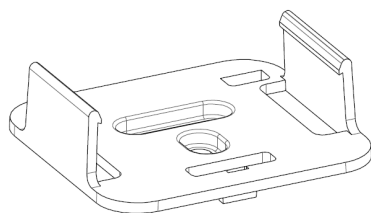


Warning! t₊ is positioned on the terminal screw corresponding to the figure in the section 'Control, signalling and connection elements'.

Accessories

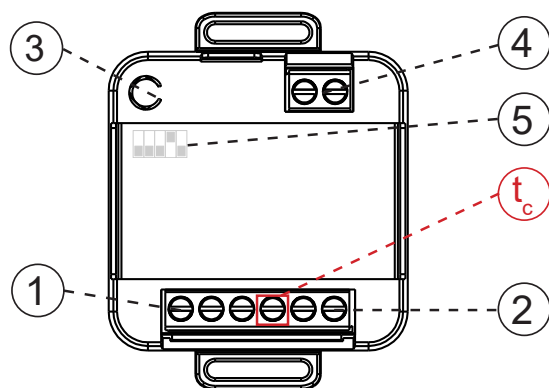
Rail mounting bracket

The dimmer can be mounted on a 35 mm profile rail (in accordance with EN 60715) using the plastic bracket supplied.



Control, signalling and connection elements

The luminaire has a screw terminal at the bottom for connecting the 12 / 48 Vdc input power supply (1) and the LED output loads (2). There is also a signal LED (3) and a DALI2 / PUSH input terminal at the top (4). Dip-switches (5) for setting the installation type and PWM output frequency are located on the back of the device.



EK-GD2-DL-2-L-01

No.	Abbreviation	Link
1	DC IN (-)	DC input (-)
	DC IN (+)	DC input (+)
2	OUT 1 CW L+ L-	LED output 1 CW - cold white
	OUT 2 WW L+ L-	LED output 2 WW - warm white
3	-	Signalling LEDs
4	DA P1 / DA P2	DALI input pole 1 / DALI input pole 2
	DALI PUSH	PUSH input
5	-	Dip-switch (on the back of the device)

The dimmer must be powered according to the indicated polarity.

Warning! The Dip-switch MUST be on the right side, looking at the dimmer from the rear.



The dip-switch configuration is shown in the table below.

Assembly

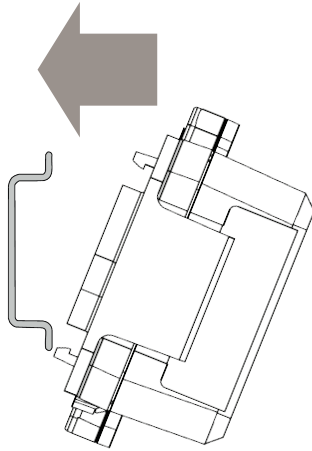
PUSH mode	Separate 2-channel mode with push-button input	Mode DimToWarm
ON 1 2 3 4 5	ON 1 2 3 4 5	ON 1 2 3 4 5
DALI mode DT6 2 outputs		
ON 1 2 3 4 5	ON 1 2 3 4 5	ON 1 2 3 4 5
High compatibility for voltage-current converters Short-circuit detection: OFF	Full compliant DALI2 Short-circuit detection: ON	
DALI mode DT6 1 output		
ON 1 2 3 4 5	ON 1 2 3 4 5	ON 1 2 3 4 5
High compatibility for voltage-current converters Short-circuit detection: OFF	Full compliant DALI2 Short-circuit detection: ON	
DALI mode DT8 1 output		
ON 1 2 3 4 5	ON 1 2 3 4 5	ON 1 2 3 4 5
High compatibility for voltage-current converters Short-circuit detection: OFF	Full compliant DALI2 Short-circuit detection: ON	
DALI mode DT6 1 output DimToWarm		
ON 1 2 3 4 5	ON 1 2 3 4 5	ON 1 2 3 4 5
High compatibility for voltage-current converters Short-circuit detection: OFF	Full compliant DALI2 Short-circuit detection: ON	

The dimmer has an IP10 degree of protection and is therefore suitable for use in dry indoor environments. It can be mounted in flush-mounted boxes, while the plastic holder allows mounting on a profile rail according to EN 60715 inside switchboards and electrical distribution cabinets.



Note. Before starting assembly operations, set the dip-switches located on the back of the device according to the chosen installation type and PWM output frequency.

To assemble, insert the mounting bracket into the moulded profile of the device, then engage the notches on the profile rail from below. Finally, push the upper part towards the rail for final attachment.



Note. When installing in switchboards and distribution cabinets, the necessary ventilation must be ensured so that the temperature remains within the permissible operating range for the device.

To dismantle the device, after disconnecting the inputs, outputs and power supply, slide down the locking device using a screwdriver and remove the device from the profile rail.

Setup and Installation

The steps for installing the device are as follows:

1. Set the dip-switches for the desired mode, as described in the data sheet; the available modes are listed in the table opposite;
2. Again using dip-switches, set the PWM output frequency;
3. Connect the LED outputs to the 'OUT 1/2 L+ / L-' output terminals of the device;
4. Connect to the DA / DALI / PUSH terminal, depending on application:
 - Pushbutton (possibly with relay);
 - DALI power supply and DALI master;
5. Connect the 12 / 24 / 48 Vdc power supply to the DC IN input of the device.

TECHNICAL INSTALLATION NOTES



- Installation and maintenance should only be carried out with the power supply disconnected and by qualified personnel in accordance with current regulations.
- The product must be installed inside a surge-protected electrical cabinet.
- Check that the input and output connection cables are correctly inserted in the terminal carriage and not under the carriage itself. Incorrect insertion of the cable inside the carriage can lead to overheating or malfunctioning.
- Keep 230Vac and non-SELV circuits separate from safety extra-low voltage (SELV) circuits and all connections of this product. It is absolutely forbidden to connect, for any reason, directly or indirectly, the 230Vac mains voltage to the bus or other parts of the circuit. Use double-insulated cables.

Connection to the DALI bus and PUSH control

The connection to the DALI bus network and the PUSH control takes place via the screw or spring terminal, located on the front of the luminaire at the top.

The length of the connecting cables between local control (where provided) and the device must be less than 20m; for lengths of more than 20m or in the presence of several control buttons, the use of a supporting normally open relay is recommended. Cables must be correctly dimensioned and must be isolated from any non-SELV wiring or live parts. The use of shielded cables is recommended.

The length and type of cables connecting to the DALI bus must comply with the protocol specifications and current standards; they must be insulated from any non-SELV wiring or live parts. The use of shielded cables is recommended.

All devices and control signals connected to the DALI bus and local control (where applicable) must be SELV (connected devices must be SELV or otherwise provide a SELV signal).

DALI Terminal Features and Controls

- Screw tightening of conductors
- Button and bus wiring: $0.05 \div 3\text{mm}^2$ (30 TO 12 AWG)
- Recommended conductor stripping: $5.0 \div 6.0\text{mm}$
- Maximum connection length between dimmer-driver and control < 20m
- DALI bus connection cable length < 25m

Power connection

For the power supply, use only SELV-type power supplies with limited current, short-circuit protection and a power rating appropriate to the connected load. In the case of power supply units equipped with earth terminals, it is mandatory to connect ALL protective earth points (PE = Protection Earth) to a professionally executed and certified earth system.

Power and output terminal features and controls

- Screw tightening of conductors
- Power supply and LED wiring: $0.05 \div 3 \text{ mm}^2$ (30÷12 AWG)
- Recommended conductor stripping: 5.0 - 6.0 mm
- Max. torque 0.5 Nm

LED outputs

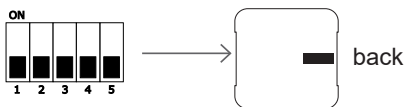
The length of the connecting cables between the product and the LED modules must be less than 20 m; the cables must be correctly dimensioned and must be insulated from any non-SELV wiring or live parts. Use double-insulated shielded and twisted cables.

Modes of operation

Installation diagrams for each operating mode are shown below.

1. PUSH mode

In order to activate this control/operation mode, the dip-switches must be set as indicated.



Control by push button can be done either directly using the mains voltage ($110 \div 230 \text{ Vac}$) as in Fig.1, or the output voltage of the power supply unit ($8 \div 53 \text{ Vdc}$), Fig.2.

When installing the dimmer in the system, it is preferable to use the diagram shown in Fig.1. In this configuration, the dimmer guarantees isolation from the mains voltage.

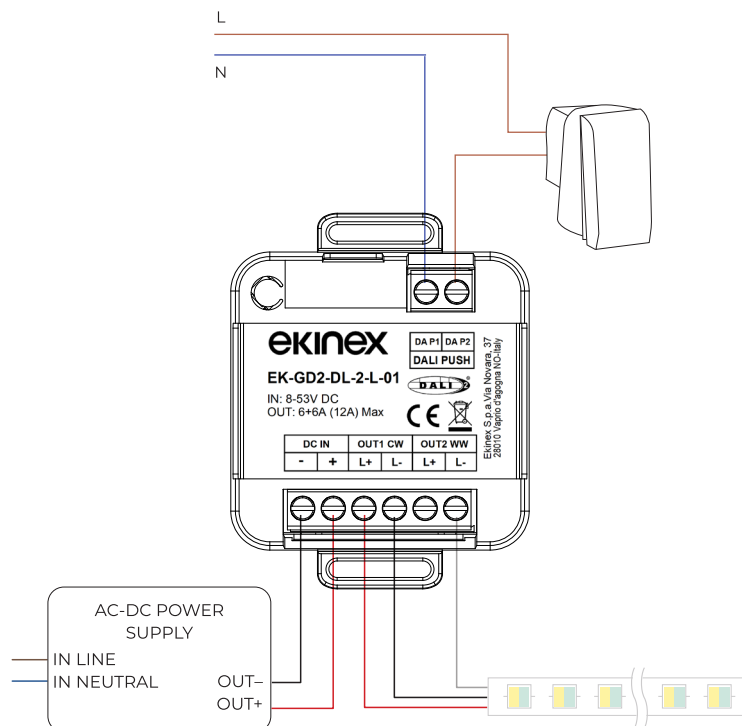


Fig. 1 - Connection of mains voltage push button

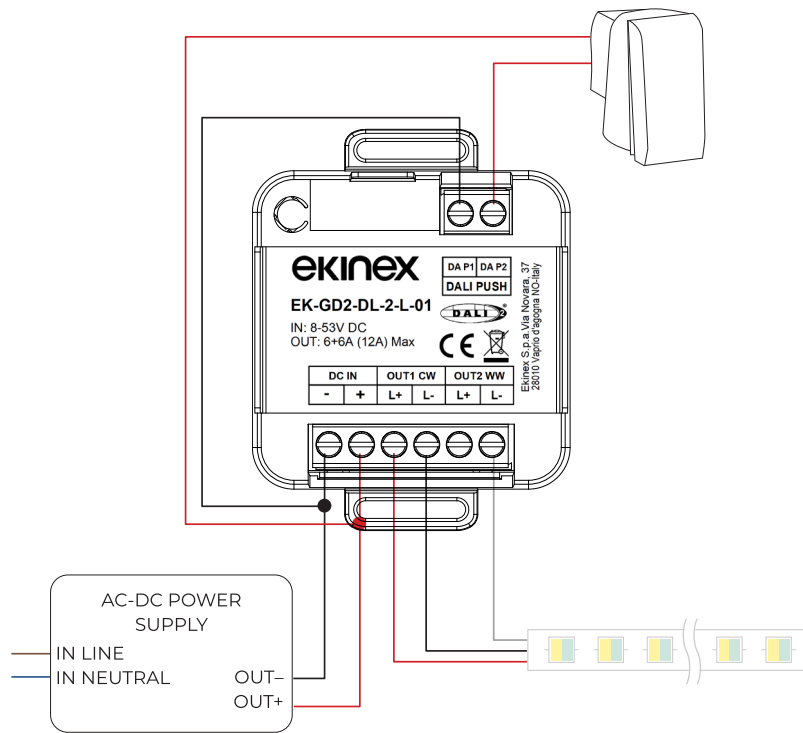


Fig. 2 - Button connection with voltage from the power supply unit

The input voltage range between DA P1 and DA P2 is

- DC: 10 to 265Vdc
- AC: 12 to 265Vac @50 to 65Hz

The maximum current drawn by the PUSH interface is approximately 2mA.

The maximum distance of the dimmer from the switch must not exceed 20m; shielded cables are recommended.

For cable lengths of more than 20 m or in the presence of several control buttons, the use of a supporting normally open relay is recommended. In this regard, please refer to Fig.11 on the following pages.

The dimmer, in the event of a power failure, saves the state of the output so as to restore the set brightness level and CCT when power is restored.

PUSH interface operation

- Double Click (short press <1sec): switching from Brightness Control mode to CCT Control mode and vice versa.

Brightness Control Mode

- Single click (short press <1sec): switches output on or off (ON/OFF).
- Single click (long press >1sec):

If the dimmer is in the OFF state, it sets the brightness to the minimum value while maintaining the set CCT. Disturbance-free night mode function.

If the dimmer is in the ON state, prolonged pressure allows the output to be dimmed (up/down).

CCT Control Mode

- Single click (short press <1sec): switches output on (ON).
- Single click (long press >1sec): The prolonged pressure allows the output colour temperature (CCT) to change.



Note. after 30 seconds of inactivity the dimmer returns to the Brightness Control mode.



Warning! Ensure that the input and output connection cables are correctly inserted in the terminal carriage and not under the carriage itself. Incorrect insertion of the cable into the carriage can lead to overheating or malfunctioning.

In order to activate this control/operation mode, the dip-switches on the back of the box must be set.



The input voltage range between DA P1 and DA P2 is

- The maximum current drawn by the PUSH interface is approximately 2mA.

In the event of a power failure, the dimmer saves the status of the outputs in order to restore the set brightness levels when power is restored.

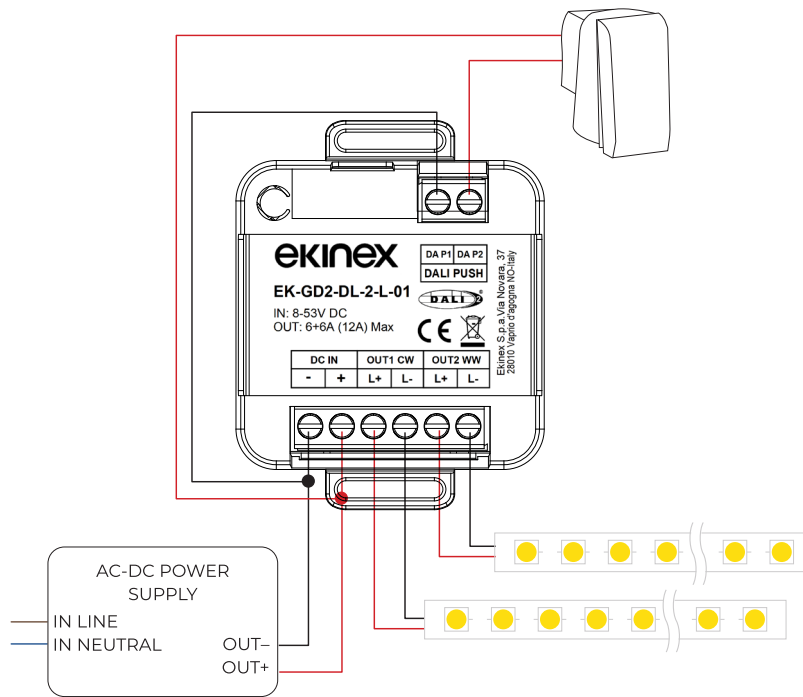


Fig. 4 - Button connection with voltage from the power supply unit

PUSH interface operation

- Double Click (short press <1sec): change from **Brightness control** of output OUT1 to output OUT2 and vice versa.

OUT1 Brightness Control Mode

- Single click (short press <1sec): switches output on or off (ON/OFF).
- Single click (long press >1sec):
If the dimmer is in the OFF state, it sets the brightness of OUT1 to the minimum value. Disturbance-free night mode function.
If the dimmer is in the ON state, prolonged pressure allows dimming of OUT1 (up/down).

OUT2 Brightness Control Mode

- Single click (short press <1sec): switches output on or off (ON/OFF).
- Single click (long press >1sec):
If the dimmer is in the OFF state, it sets the brightness of OUT2 to the minimum value. Disturbance-free night mode function.
If the dimmer is in the ON state, prolonged pressure allows dimming of OUT2 (up/down).



Warning! Ensure that the input and output connection cables are correctly inserted in the terminal carriage and not under the carriage itself. Incorrect insertion of the cable inside the carriage can lead to overheating or malfunctioning.

3. DimToWarm mode

In order to activate this control/operation mode, the dip-switches on the back of the box must be set.

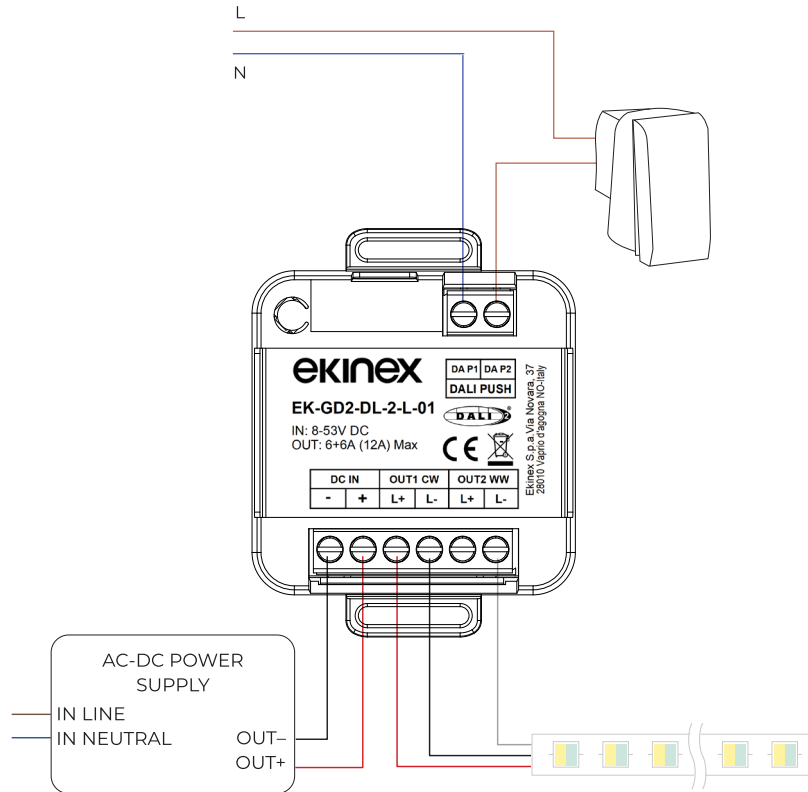
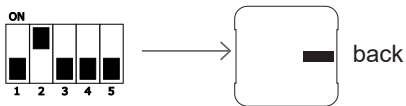


Fig. 5 - Connection of mains voltage push button

Control via push-button can be carried out using either the mains voltage (110 to 230VAC) directly, as in Fig.5, or the output voltage of the power supply unit (8 to 53VDC), as in Fig.6.

For the installation of the dimmer in the system it is preferable to use the diagram shown in Fig.5, as in this configuration the dimmer guarantees isolation from the mains voltage.

The input voltage range between DA P1 and DA P2 is

- DC: 10 to 265Vdc
- AC: 12 to 265Vac @50 to 65Hz

The maximum current drawn by the PUSH interface is approximately 2mA.

The maximum distance of the dimmer from the switch must not exceed 20m; shielded cables are recommended.

For cable lengths of more than 20 m or in the presence of several control buttons, the use of a supporting normally open relay is recommended. In this regard, please refer to Fig.11 on the following pages.

The dimmer, in the event of a power failure, saves the state of the outputs so as to restore the set brightness level and CCT when power is restored.

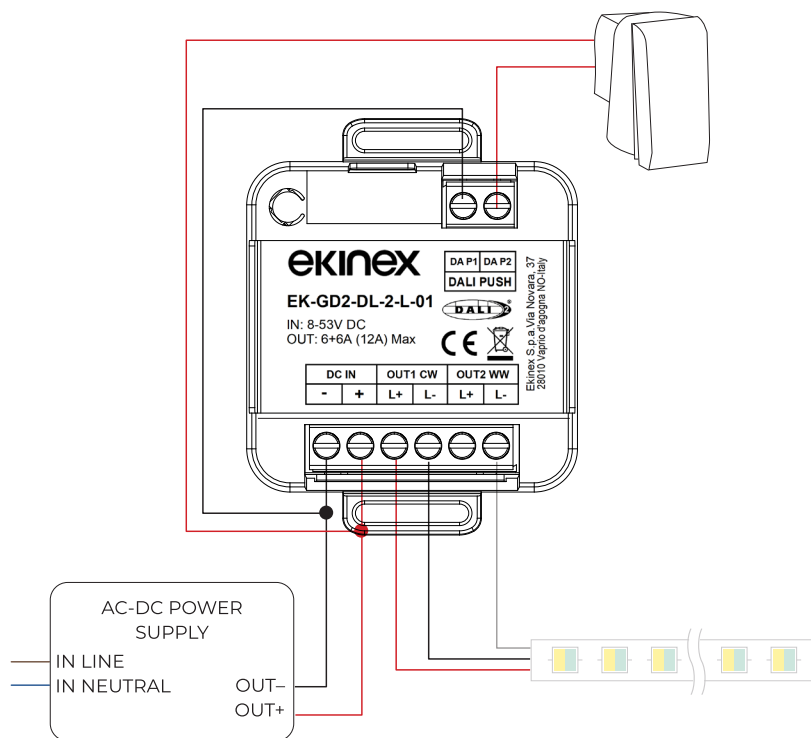


Fig. 6 - Button connection with voltage from the power supply unit

PUSH interface operation

- Single click (short press <1sec): switches the output on or off (ON/OFF).
- Double Click (short press <1sec): Set maximum brightness (output = 100% CCT = cold). Fast maximum light mode.
- Long press (prolonged pressure >1sec):

If the dimmer is in the OFF state, it sets the output to the minimum value and CCT = warm. Disturbance-free night mode function.

If the dimmer is in the ON state, prolonged pressure allows the output to be dimmed (up/down) at the same time as the CCT change.



Note.

LOW brightness = WARM colour temperature

HIGH brightness = COLD colour temperature

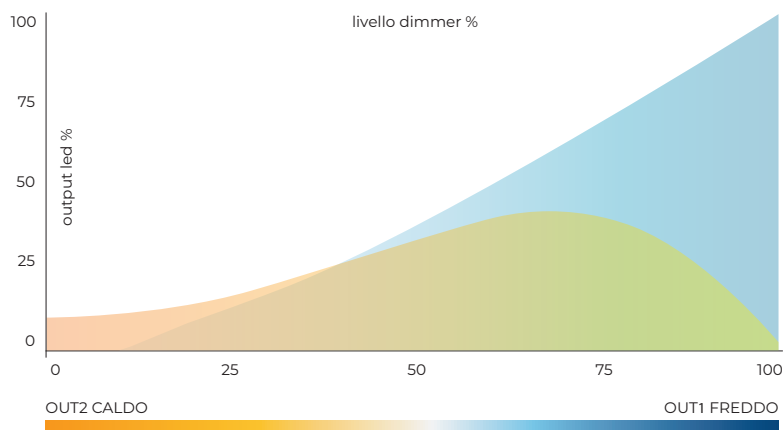
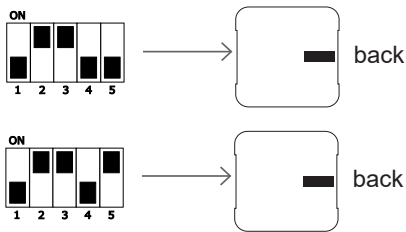


Fig. 6a - Percentage dimming level

4. DALI mode DT6 2 outputs

In order to activate this control/operation mode, the dip-switches on the back of the box must be set.



High compatibility for voltage-current converters

Short-circuit detection: OFF

Full compliant DALI2

Short-circuit detection: ON

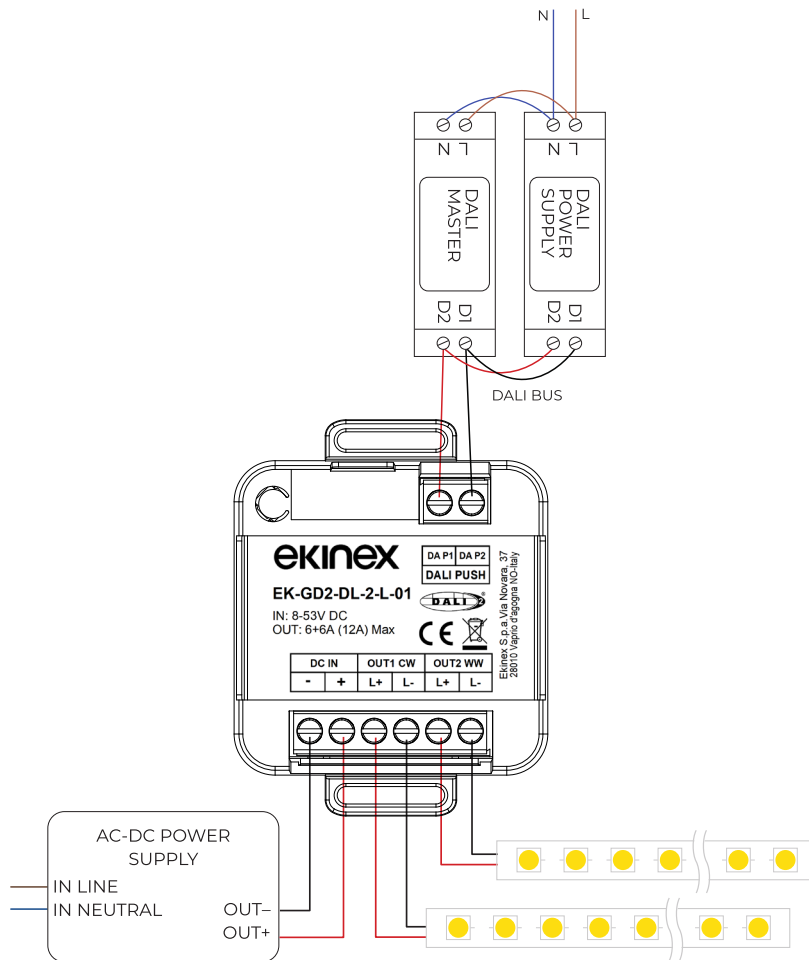


Fig. 7 - DALI connection

In order to activate this control/operation mode, it is necessary to set the Dip Switches on the back of the box and connect the DA P1 and DA P2 inputs to the DALI bus.

In this mode, when scanning the DALI BUS, the dimmer shows up as 2 separate DT6 dimmers.

One DT6 dimmer corresponds to output OUT1 and the other to OUT2.

The dimmer offers 2 different operating modes with DALI2 input:

- The mode “**High compatibility for voltage-current converters**” allows the control of resistive and resistive/capacitive loads such as switching voltage/current converters or other loads with small capacitances. In this mode, short-circuit and open-circuit flags are not reported on the DALI bus.
- The mode “**Full compliant DALI2**” enables the control of resistive loads only. In this mode, the short-circuit flag is reported on the DALI bus.

NOTE: When used with loads with capacitance, the dimmer switches off the load once the short-circuit flag is reported.

Once the dimmer has been configured in DALI mode, and disconnected from the DALI bus, the status of the outputs switch to the POWER ON LEVEL set via the DALI bus (Default ALL ON).

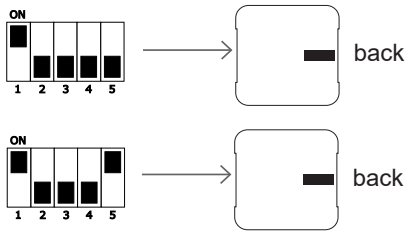
The maximum current drawn by the DALI bus is approximately 2mA.

Reference standards:

- IEC 62386-101 Ed. 2
- IEC 62386-102 Ed. 2
- IEC 62386-207 Ed. 2 (DT6)

5. DALI mode DT6 1 output

In order to activate this control/operation mode, it is necessary to set the dip-switches on the back of the box and connect the DA P1 and DA P2 inputs to the DALI bus.



High compatibility for voltage-current converters

Short-circuit detection: OFF

Full compliant DALI2

Short-circuit detection: ON

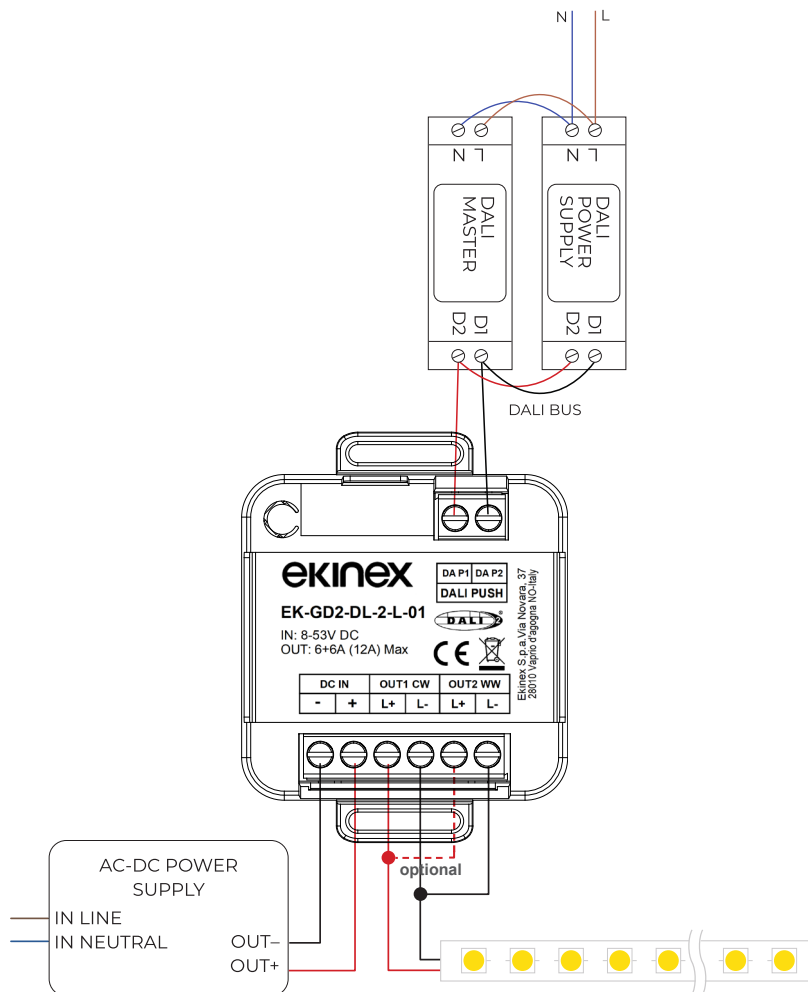


Fig. 8 - DALI connection

In this mode, when scanning the DALI BUS, the dimmer shows up as 1 single DT6 dimmer.

Output OUT1 and output OUT2 work in parallel with a maximum current of 12A.

The dimmer offers 2 different operating modes with DALI2 input:

- The mode **"High compatibility for voltage-current converters"** allows the control of resistive and resistive/capacitive loads such as switching voltage/current converters or other loads with small capacitances. In this mode, short-circuit and open-circuit flags are not reported on the DALI bus.
- The mode **'Full compliant DALI2'** enables the control of resistive loads only. In this mode the short-circuit flag is reported on the DALI bus. **NOTE: When used with loads with capacitance, the dimmer switches off the load once the short-circuit flag is reported.**

Once the dimmer has been configured in DALI mode, and disconnected from the DALI bus, the status of the outputs switch to the POWER ON LEVEL set via the DALI bus (Default ALL ON).

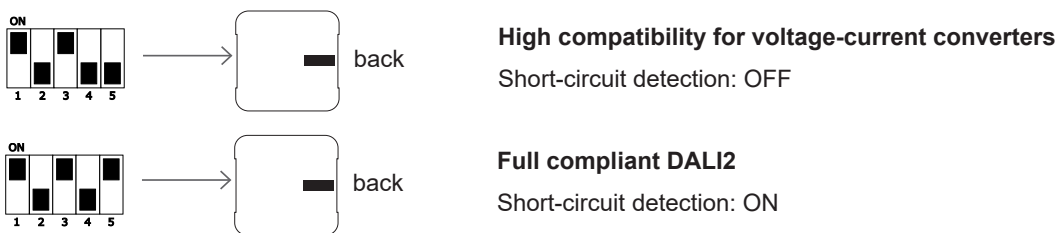
The maximum current drawn by the DALI bus is approximately 2mA.

Reference standards:

- IEC 62386-101 Ed. 2
- IEC 62386-102 Ed. 2
- IEC 62386-207 Ed. 2 (DT6)

6. DALI mode DT8 1 output

In order to activate this control/operation mode, it is necessary to set the dip-switches on the back of the box and connect the DA P1 and DA P2 inputs to the DALI bus.



In this mode, when scanning the DALI BUS, the dimmer shows up as 1 single DT8 dimmer.

Output OUT1 must be connected to the load corresponding to cold CCT (CW) and output OUT2 to the load corresponding to hot CCT (WW).

The dimmer offers 2 different operating modes with DALI2 input:

- The mode **"High compatibility for voltage-current converters"** allows the control of resistive and resistive/capacitive loads such as switching voltage/current converters or other loads with small capacitances. In this mode, short-circuit and open-circuit flags are not reported on the DALI bus.
- The mode **'Full compliant DALI2'** enables the control of resistive loads only. In this mode, the short-circuit flag is reported on the DALI bus. **NOTE: When used with loads with capacitance, the dimmer switches off the load once the short-circuit flag is reported.**

The maximum current drawn by the DALI bus is approximately 2mA.

Reference standards:

- IEC 62386-101 Ed. 2
- IEC 62386-102 Ed. 2
- IEC 62386-209 Ed. 2 (DT8)

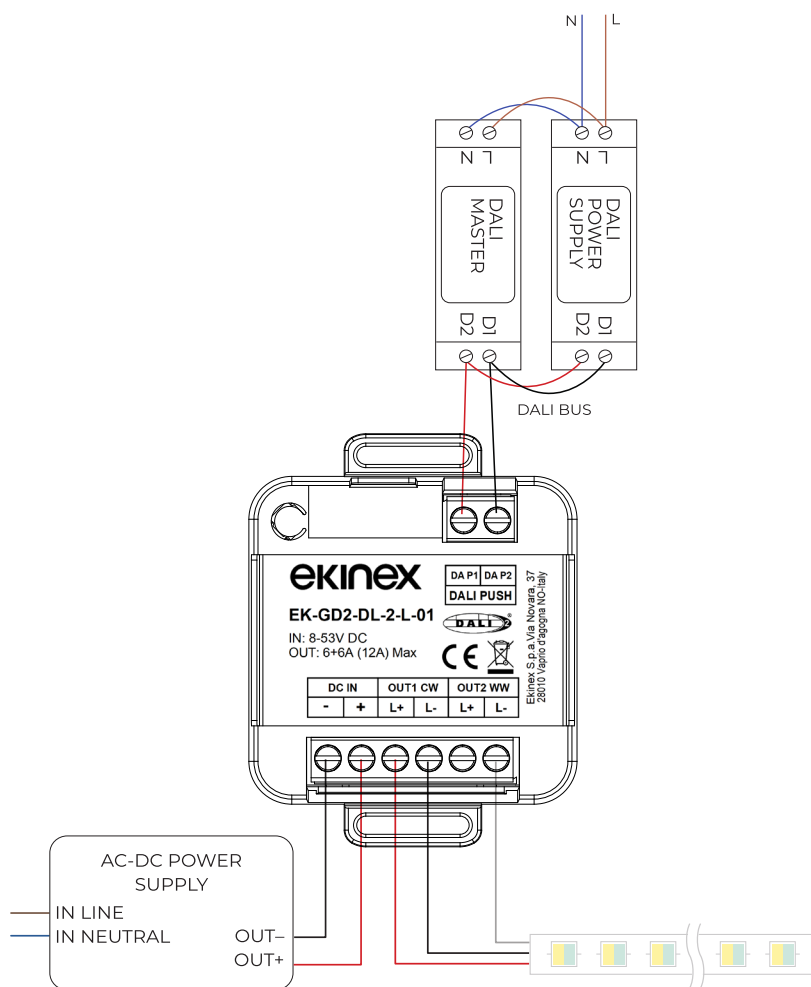
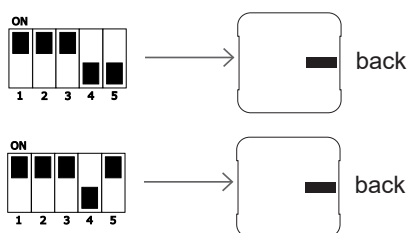


Fig. 9 - DALI connection

6. DALI mode DT6 1 output DimToWarm

In order to activate this control/operation mode, it is necessary to set the dip-switches on the back of the box and connect the DA P1 and DA P2 inputs to the DALI bus.



High compatibility for voltage-current converters

Short-circuit detection: OFF

Full compliant DALI2

Short-circuit detection: ON

In this mode, when scanning the DALI BUS, the dimmer shows up as 1 single DT6 dimmer.

The outputs OUT1 and OUT2 connected to a TUNABLE WHITE strip will be mixed by the dimmer to simulate a DimToWarm load (Fig.10a).

The dimmer offers 2 different operating modes with DALI2 input:

- The mode **“High compatibility for voltage-current converters”** allows the control of resistive and resistive/capacitive loads such as switching voltage/current converters or other loads with small capacitances. In this mode, short-circuit and open-circuit flags are not reported on the DALI bus.
- The mode **“Full compliant DALI2”** enables the control of resistive loads only. In this mode, the short-circuit flag is reported on the DALI bus.

NOTE: When used with loads with capacitance, the dimmer switches off the load once the short-circuit flag is reported.

Once the dimmer has been configured in DALI mode, and disconnected from the DALI bus, the status of the outputs switch to the POWER ON LEVEL set via the DALI bus (Default ALL ON).

The maximum current drawn by the DALI bus is approximately 2mA.

Reference standards:

- IEC 62386-101 Ed. 2
- IEC 62386-102 Ed. 2
- IEC 62386-207 Ed. 2 (DT6)

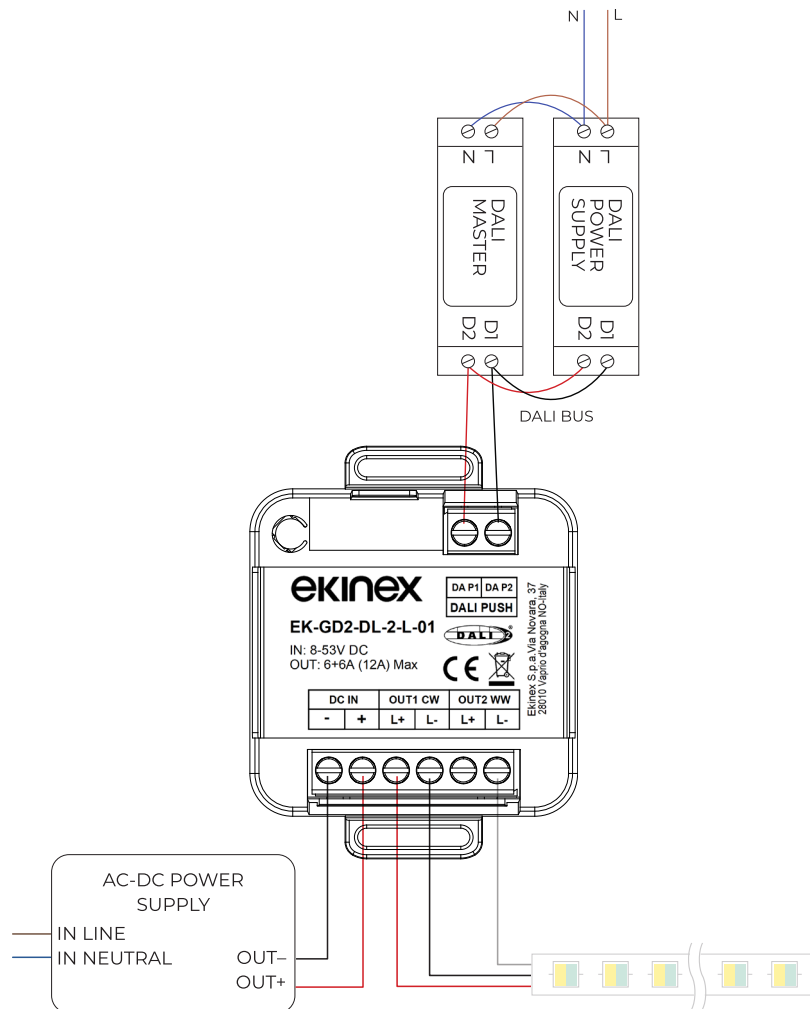


Fig. 10 - DALI connection

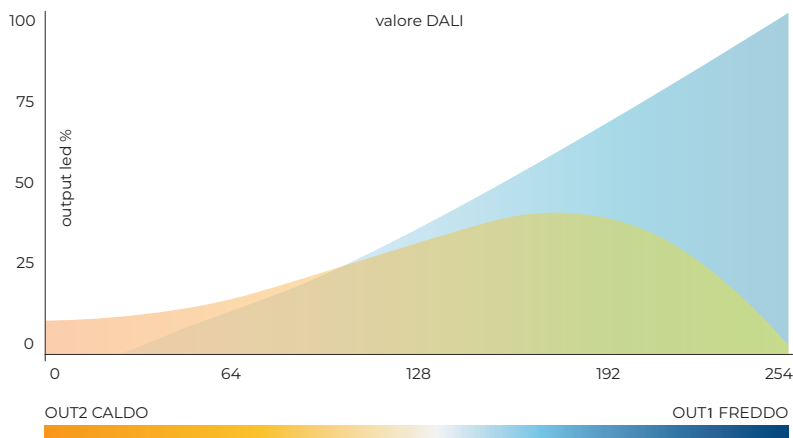


Fig. 10a - Outputs LED percentage intensity versus DALI value

7. Push-button mode with relay

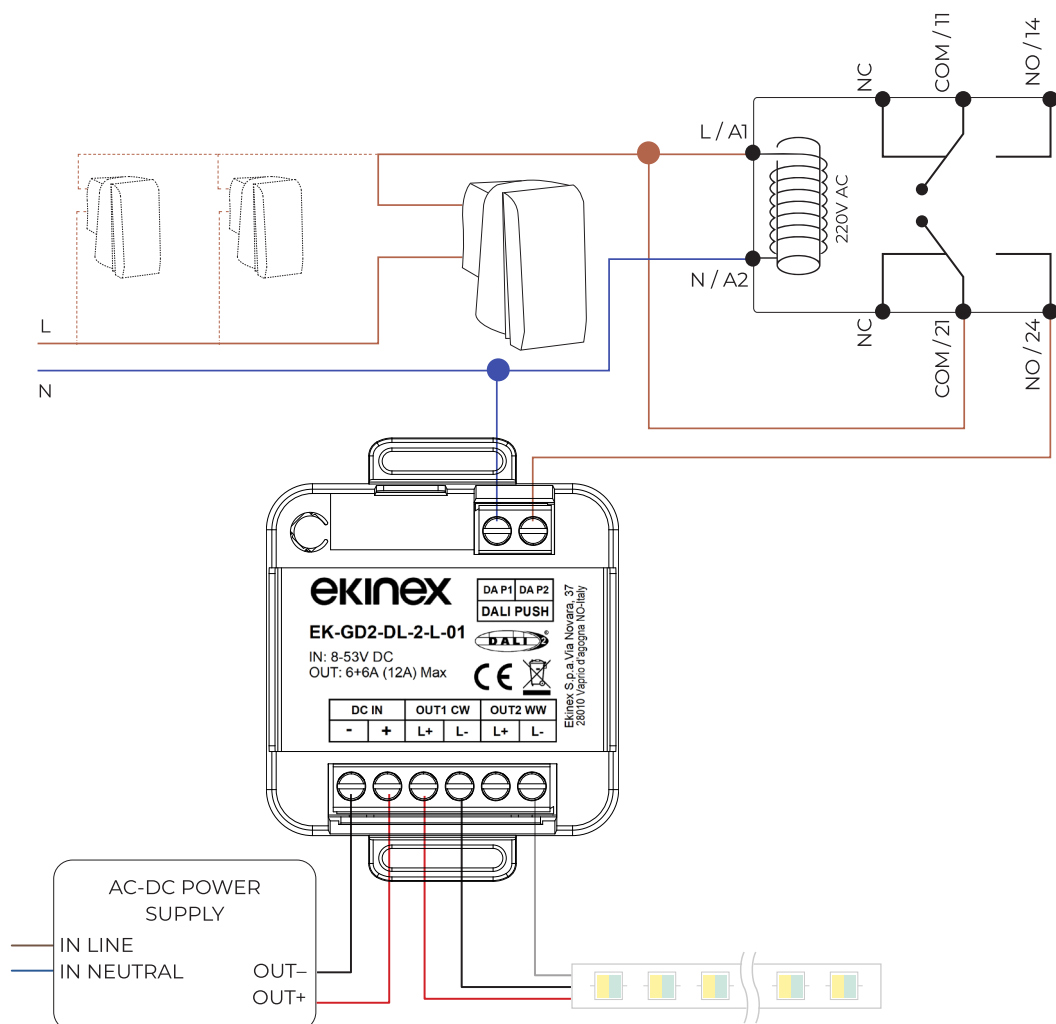


Fig. 11 - Dimmer connection with multiple inputs from pushbuttons via supporting relays.
TUNABLE WHITE or DimToWarm mode

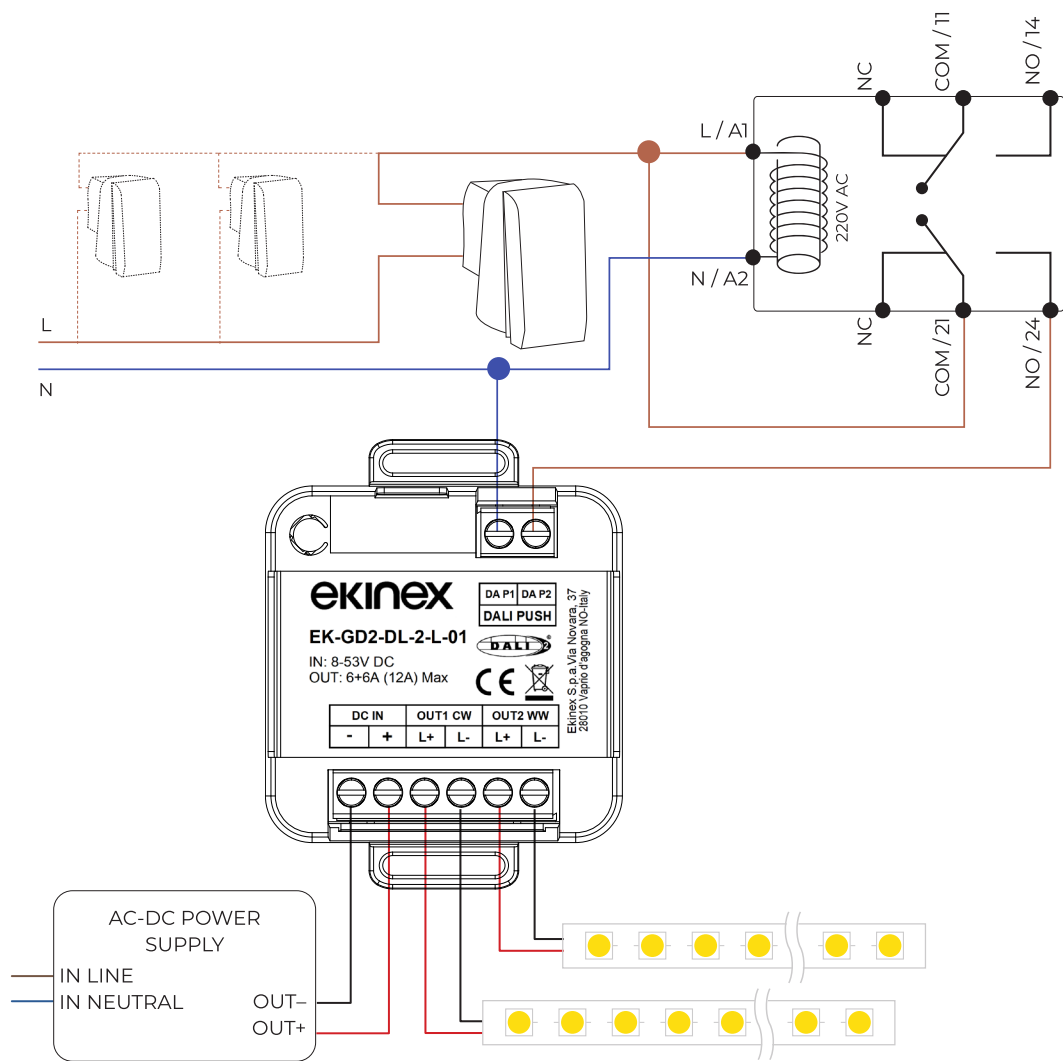
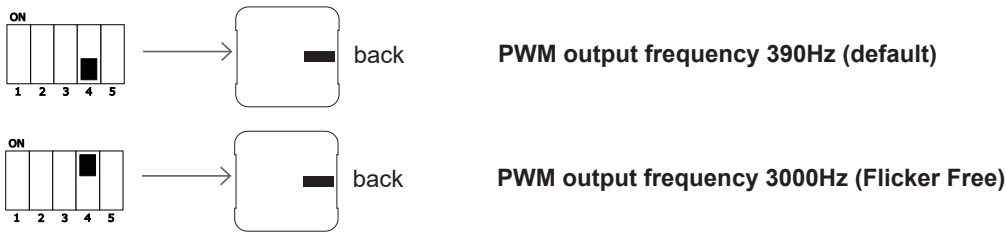


Fig. 12 - Dimmer connection with multiple inputs from pushbuttons via supporting relays.
DT6 mode 2 outputs

PWM output frequency setup

Dip-switch setting for changing PWM output frequency:



Using dip-switch 4, the PWM output frequency can be set.

The default output frequency (dip-switch 4 to OFF) is 390Hz. This frequency is suitable for the use of all resistive or resistive-capacitive loads including frequency-limited voltage-current switching or linear converters.

Setting dip-switch 4 to ON sets the output frequency to 3000Hz. This parameter allows the dimmer to comply with the IEEE1789-2015 directive and be declared FLICKER FREE.

Setting the output frequency to 3000Hz does not lower the maximum current to 6A per channel (12A total).

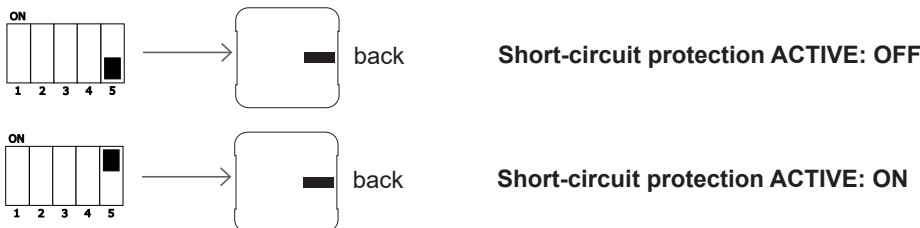
The use of the 3000Hz frequency output must be adapted to the type of load used, which must allow this frequency to be used.



Warning! The use of loads not suitable for PWM dimming with a frequency of 3000Hz may impair the functioning of the dimmer or the load and lead to irreversible damage to them.

When using the 3000Hz output with capacitive loads, which are suitable to be dimmed via high-frequency PWM, it is recommended to disable the active internal short-circuit protection. This disabling is done by setting dip switch 5 to OFF.

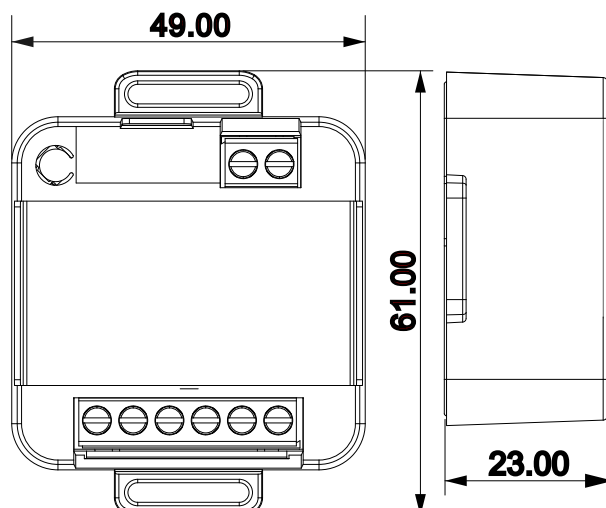
Dip switch setting to enable/disable short circuit ACTIVE:



When disabling the short-circuit protection ACTIVE, always use a short-circuit protected power supply unit for LEDs according to EN61347-1, EN647-2-13 or equivalent. Alternatively, use an external fast fuse with a tripping current commensurate with the load. Failure to take these precautions in the event of a short circuit could lead to irreversible damage to the dimmer.

In order to activate this control/operation mode, it is necessary to set the dip-switches on the back of the box and connect the DA P1 and DA P2 inputs to the DALI bus.

Dimensions



Marking

- CE, UKCA: the product complies with the Electromagnetic Compatibility Directive (2014/30/EU), the Low Voltage Directive (2014/35/EU) and the RoHS III Directive (2011/65/EU).
- Reference standards: EN 61347-1:2015, EN 61347-2-13, EN 55015:2013+A1:2015, EN 61547:2009, EN 50581:2012, IEC/EN 62386-101/102/207 Ed. 2 (DT6) and 209 Ed. 2 (DT8), IEC/EN 60929-E.2.1.

References

- IEC/EN 61347-1:2015 Lamp controlgear - Part 1: General and safety requirements
- IEC/EN 61347-2-13 Controlgear for electric light sources - Safety - Part 2-13: Particular requirements - Electronic controlgear for LED light sources
- EN 55015:2013+A1:2015 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
- EN 61547:2009 Equipment for general lighting purposes - EMC immunity requirements
- EN 50581:2012 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
- IEC/EN 62386-101 Ed. 2 - Digital addressable lighting interface, General requirements - System
- IEC/EN 62386-102 Ed. 2 - Digital addressable lighting interface, General requirements - Control gear
- IEC/EN 62386-207 Ed. 2 - Digital addressable lighting interface, Particular requirements for control gear - LED modules (device type 6).
- IEC 60929 Ed.2.1 - Control interface for controllable ballasts - control by DC voltage - functional specification

Maintenance

The device is maintenance-free. Use a dry cloth for cleaning. Solvents or other aggressive substances must not be used.

Disposal



The product described in this data sheet at the end of its useful life is classified as waste from electronic equipment according to the European Directive 2012/19/EU (WEEE recast), implemented in Italy by no. 49 of 14 March 2014, and cannot be disposed of as undifferentiated municipal solid waste



Warning! Improper disposal of the product may cause serious damage to the environment and human health. For proper disposal, please inform yourself about the collection and treatment methods prescribed by your local authorities.

Document

This data sheet refers to ekinex release A1.0® code EK-GD2-DL-2-L-01 and is available for download at www.ekinex.com in PDF (Portable Data Format).

File name	Release device	Update
STEKGD2DL2L01_EN_v.1.0.pdf	A1.0	11 / 2025

Warnings

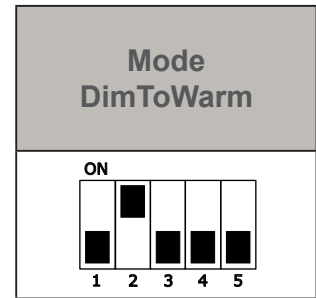
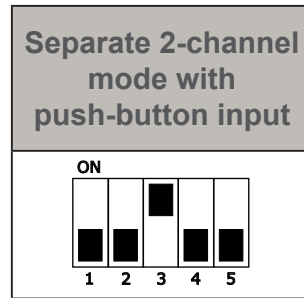
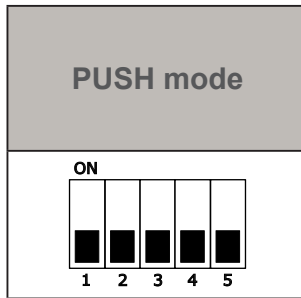
- The assembly, electrical connection, configuration and commissioning of the device may only be performed by qualified personnel in compliance with the applicable technical standards and laws in force in the respective countries
- Opening the device housing results in immediate termination of the warranty period
- In the event of tampering, compliance with the essential requirements of the applicable directives for which the appliance has been certified is no longer guaranteed
- ekinex devices® defective items must be returned to the manufacturer at the following address: ekinex® S.p.A. Via Novara 37, I-28010 Vaprio d'Agogna (NO)

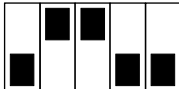
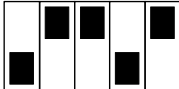
Other useful information

- The instruction sheet must be handed over to the end customer together with the project documentation
- For more information on the product, please contact ekinex Technical Support® to the e-mail address: support@ekinex.com or consult the website www.ekinex.com
- Each ekinex device® has a unique serial number on the label. The serial number may be used by installers and system integrators for documentation purposes and must be added to any communication addressed to ekinex technical support® in the event of device malfunction
- DALI, DALI2 and their logos are registered trademarks of the Digital Illumination Interface Alliance (DiiA).

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Appendix: Summary of dip switch settings



DALI mode DT6 2 outputs																					
ON  <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>ON</td><td>ON</td><td>ON</td><td>OFF</td><td>ON</td></tr></table>	1	2	3	4	5	ON	ON	ON	OFF	ON	ON  <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>ON</td><td>ON</td><td>ON</td><td>OFF</td><td>ON</td></tr></table>	1	2	3	4	5	ON	ON	ON	OFF	ON
1	2	3	4	5																	
ON	ON	ON	OFF	ON																	
1	2	3	4	5																	
ON	ON	ON	OFF	ON																	
High compatibility for voltage-current converters Short-circuit detection: OFF	Full compliant DALI2 Short-circuit detection: ON																				

DALI mode DT6 1 output																					
ON <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>ON</td><td>OFF</td><td>OFF</td><td>OFF</td><td>OFF</td></tr></table>	1	2	3	4	5	ON	OFF	OFF	OFF	OFF	ON <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>ON</td><td>OFF</td><td>OFF</td><td>OFF</td><td>ON</td></tr></table>	1	2	3	4	5	ON	OFF	OFF	OFF	ON
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ON	OFF	OFF	OFF	OFF																	
1	2	3	4	5																	
ON	OFF	OFF	OFF	ON																	
High compatibility for voltage-current converters Short-circuit detection: OFF	Full compliant DALI2 Short-circuit detection: ON																				

DALI mode DT8 1 output																					
ON <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>ON</td><td>ON</td><td>ON</td><td>ON</td><td>ON</td></tr></table>	1	2	3	4	5	ON	ON	ON	ON	ON	ON <table><tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td>ON</td><td>ON</td><td>ON</td><td>ON</td><td>ON</td></tr></table>	1	2	3	4	5	ON	ON	ON	ON	ON
1	2	3	4	5																	
ON	ON	ON	ON	ON																	
1	2	3	4	5																	
ON	ON	ON	ON	ON																	
High compatibility for voltage-current converters Short-circuit detection: OFF	Full compliant DALI2 Short-circuit detection: ON																				

DALI mode DT6 1 output DimToWarm	
ON 12345	ON 12345
High compatibility for voltage-current converters Short-circuit detection: OFF	Full compliant DALI2 Short-circuit detection: ON