
user guide

dimmer

MATTER-4CV-DIN

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MATTER-4CV-DIN

4 PUSH inputs
4-channel PWM output

TECHNICAL FEATURES

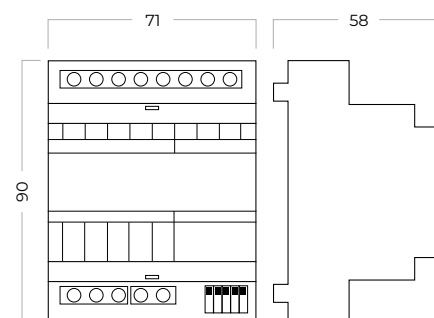
- DIN rail dimmer with 4 separate monochromatic outputs or 2 tunable white outputs or RGB or RGBW with MATTER input
- Option to configure the buttons as GENERIC SWITCH* (currently compatible with Alexa and Google Nest)
- Signal input terminals 0.2÷4 mm² (26÷10 AWG)
- PWM frequency: 390Hz
- Output current from 0A to 8A per channel (384 W at 48 V)

SAFETY WARNINGS

- Thermal intervention: 150°C on uC
- Storage temperature min: -40 max: 60° C
- Operating temperature min: -20 max: 50° C
- Protection class: IP20
- Use only in dry environments
- For operating modes that require a push button input: if the control voltage of the PUSH input is higher than the SELV voltage, the optional terminal cover/cable gland must be used to maintain the product in class II.



71x90x58 mm
weight: 98 gr

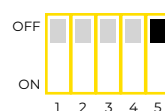


*ENABLING GENERIC SWITCH MODE

Some MATTER controllers (such as Alexa and Google Nest) do not yet support MATTER buttons (Momentary Switch / Button) as defined by the MATTER standard, but only GENERIC SWITCHES.

You can change the button configuration from MATTER (Momentary Switch / Button) to GENERIC SWITCH by setting DIP switch 5 to ON.

Warning! Setting the buttons to GENERIC SWITCH will result in the loss of the local association between the buttons and the output. This functionality can be implemented by selecting the association of the GENERIC SWITCH with the dimmer output from the MATTER Controller.



Momentary
Switch / Button



GENERIC SWITCH



CODE	VOLTAGE RANGE	CURRENT OUTPUT	POWER OUTPUT	OUTPUTS	INPUT	LOAD TYPE	PART NUMBER
MATTER-4CV-DIN	8÷53 V DC	8A	384W a 48V 192W a 24V 96W a 12V	4	MATTER / PUSH	monochrome tunable white rgb rgbw	L694MA02T4A01



Maintenance: The appliance is maintenance-free.
Use a dry cloth to clean it.
The use of solvents or other aggressive substances should be avoided at all costs.



Disposal: at the end of its useful life, the product described in this data sheet is classified as waste from electronic equipment according to the European Directive 2012/19/EU (WEEE recast), implemented in Italy with Legislative Decree no. 49 of 14 March 2014, and cannot be disposed of as unsorted municipal solid waste. **Important:** Improper disposal of the product may cause serious harm to the environment and human health. For proper disposal, inquire about the collection and treatment methods provided by the local authorities.

Modes of operation

4 independent channels output with 4 local buttons

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 1** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 1**.

In this mode, the output channels can be controlled via the MATTER protocol or the local buttons.

- Button **P1** controls output CH1.
- Button **P2** controls output CH2.
- Button **P3** controls output CH3.
- Button **P4** controls output CH4.

PUSH interface operation

Single click (quick press <1 sec)

- Turns the output on or off (ON/OFF).

Double Click (rapid pressure <1sec)

- Set maximum brightness (output = 100%).

Long Press (press and hold for >1 sec)

- If the dimmer is OFF, sets the output to the minimum value (default= 1%).
- If the dimmer is ON, pressing and holding allows the output to be dimmed (up/down).

The status of the output channels, modified by the control buttons, is also updated on MATTER.

In this mode, the buttons are not visible on MATTER.

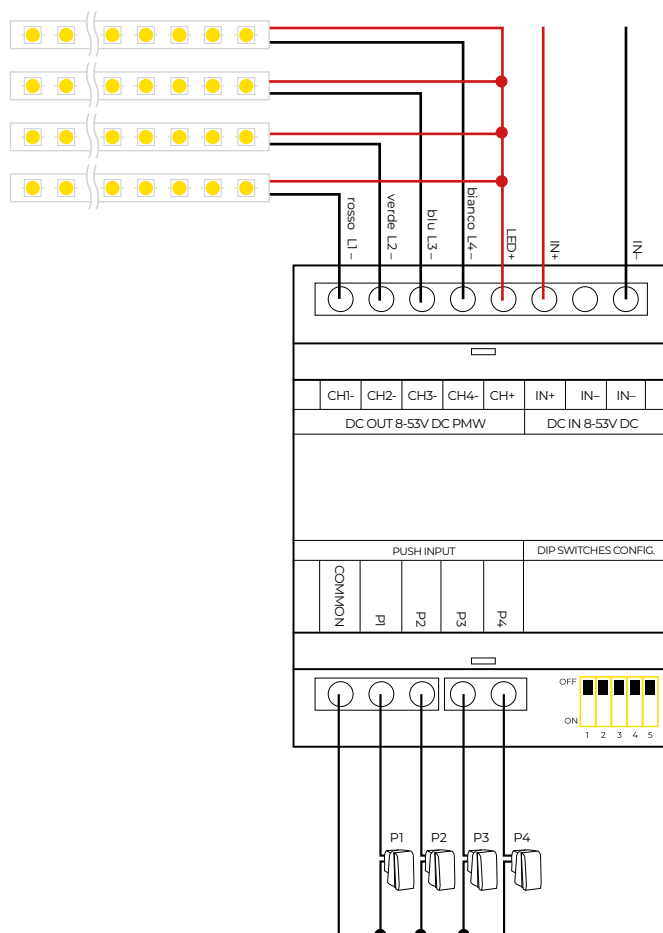


FIG. 1 - 4-channel connection with 4 local buttons



When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Modes of operation

4 independent channels output with 4 MATTER buttons (locally associated)

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 2** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 2**.

In this mode, the output channels can be controlled via the MATTER protocol or the local buttons.

- Button **P1** controls output CH1.
- Button **P2** controls output CH2.
- Button **P3** controls output CH3.
- Button **P4** controls output CH4.

PUSH interface operation

Single click (quick press <1 sec)

- Turns the output on or off (ON/OFF).

Double Click (rapid pressure <1sec)

- Set maximum brightness (output = 100%).

Long Press (press and hold for >1 sec)

- If the dimmer is OFF, sets the output to the minimum value (default= 1%).
- If the dimmer is ON, pressing and holding allows the output to be dimmed (up/down).

The status of the output channels, modified by the control buttons, is also updated on MATTER.

In this mode, the buttons are visible on MATTER and act locally on the dimmer's output channels.

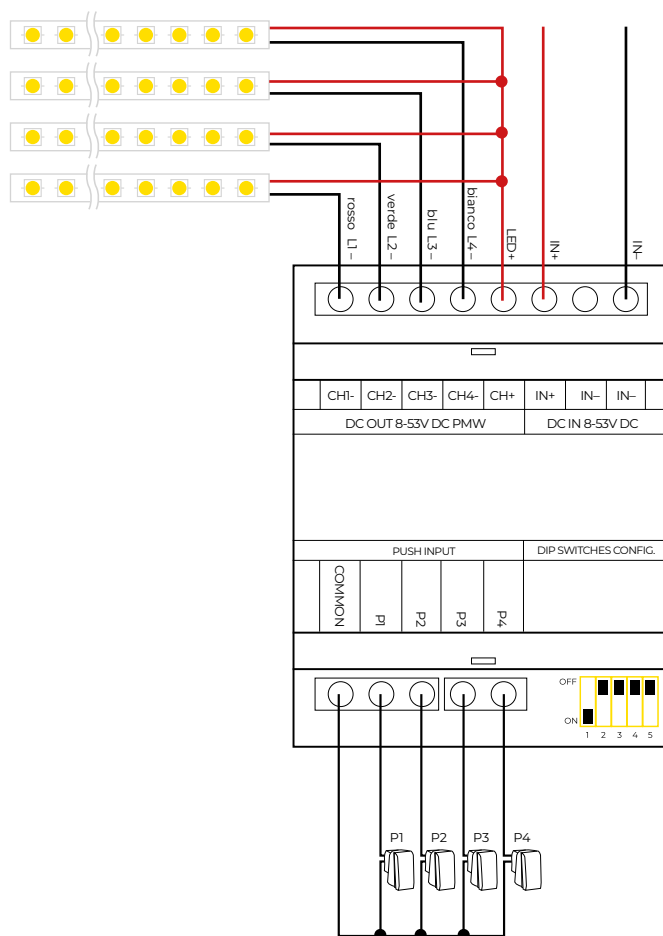


FIG. 2 - 4 independent channel connection with 4 MATTER buttons



When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Modes of operation

4 independent channels output with 4 MATTER buttons (not associated)

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 3** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 3**.

In this mode, the output channels can be controlled via the MATTER protocol or local buttons.

In this mode, the buttons are visible on MATTER and can be associated with other dimmers or actuators.

NB: in this mode, the buttons cannot act on the dimmer to which they are connected.

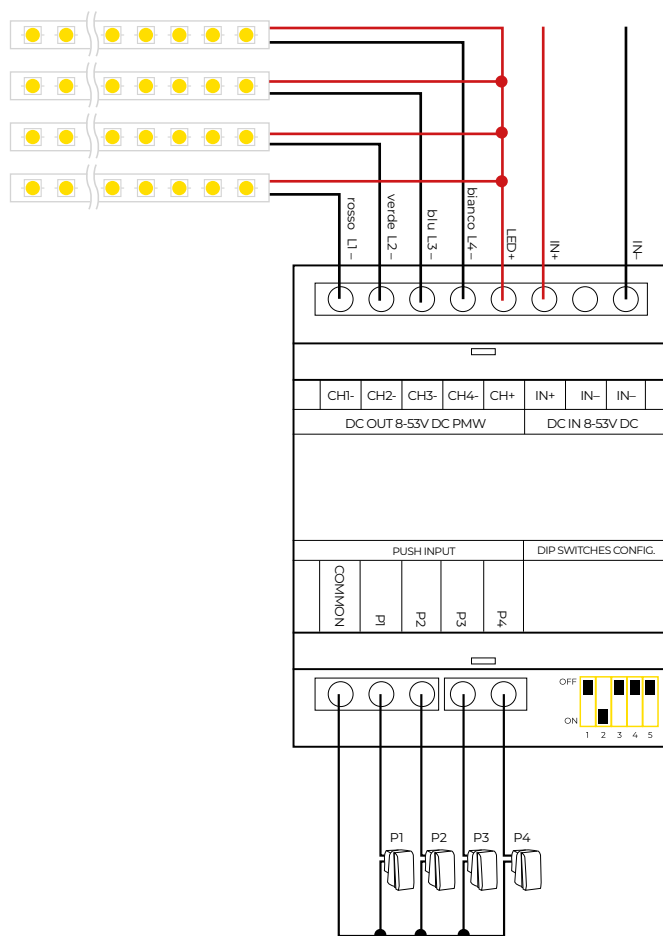


FIG. 3 - connection of 4 independent channels with 4 unassociated MATTER buttons



When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Modes of operation

2 independent tunable white outputs with 4 local buttons

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 4** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 4**. In this mode, the output channels can be controlled via the MATTER protocol or local buttons.

- Button **P1** controls the CCT (colour temperature) of the LED modules connected to CH1- and CH2-.
- Button **P2** controls the intensity of the LED modules connected to CH1- and CH2- while maintaining a constant CCT output.
- Button **P3** controls the CCT (colour temperature) of the LED modules connected to CH3- and CH4-.
- Button **P4** controls the intensity of the LED modules connected to CH3- and CH4-, keeping the output CCT constant.

PUSH interface operation

Single click on P1, P2, P3, P4 (quick press <1 sec)

- Turns the output on or off (ON/OFF).

Double click on P1, P2, P3, P4 (quick press <1 sec)

- Sets maximum brightness (output = 100%).

Long press on P2 and P4 (press and hold >1 sec)

- If the dimmer is in the OFF state, sets the output to the minimum value (default= 1%).
- If the dimmer is in the ON state, pressing and holding allows the output to be dimmed (up/down).

Long press on P1 and P3 (prolonged press >1 sec)

- If the dimmer is OFF, set the output to the minimum value (default= 1%).
- If the dimmer is ON, a prolonged press allows you to change the CCT of the output (CCT up/down).

The status of the output channels, modified by the control buttons, is also updated on MATTER.

In this mode, the buttons are not visible on MATTER.

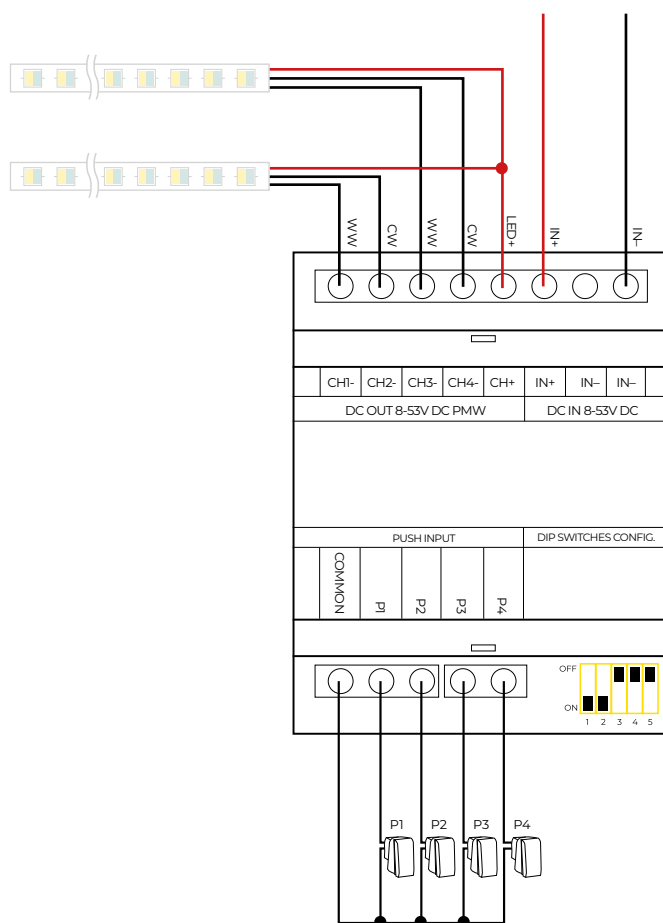


FIG. 4 - connection of 2 independent tunable white outputs with 4 local buttons



When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Modes of operation

2 independent tunable white outputs with 2 MATTER CCT buttons (associated)

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 5** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 5**. In this mode, the output channels can be controlled via the MATTER protocol or local buttons.

- Button **P1** controls the CCT (colour temperature) of the LED modules connected to CH1- and CH2-.
- Button **P2** controls the intensity of the LED modules connected to CH1- and CH2- while maintaining a constant CCT output.
- Button **P3** controls the CCT (colour temperature) of the LED modules connected to CH3- and CH4-.
- Button **P4** controls the intensity of the LED modules connected to CH3- and CH4-, keeping the output CCT constant.

PUSH interface operation

Single click on P1, P2, P3, P4 (quick press <1 sec)

- Turns the output on or off (ON/OFF).

Double click on P1, P2, P3, P4 (quick press <1 sec)

- Sets maximum brightness (output = 100%).

Long press on P2 and P4 (press and hold >1 sec)

- If the dimmer is in the OFF state, sets the output to the minimum value (default= 1%).
- If the dimmer is in the ON state, pressing and holding allows the output to be dimmed (up/down).

Long press on P1 and P3 (prolonged press >1 sec)

- If the dimmer is OFF, set the output to the minimum value (default= 1%).
- If the dimmer is ON, a prolonged press allows you to change the CCT of the output (CCT up/down).

The status of the output channels, modified by the control buttons, is also updated on MATTER.

In this mode, the buttons are visible on MATTER and act locally on the dimmer's output channels.

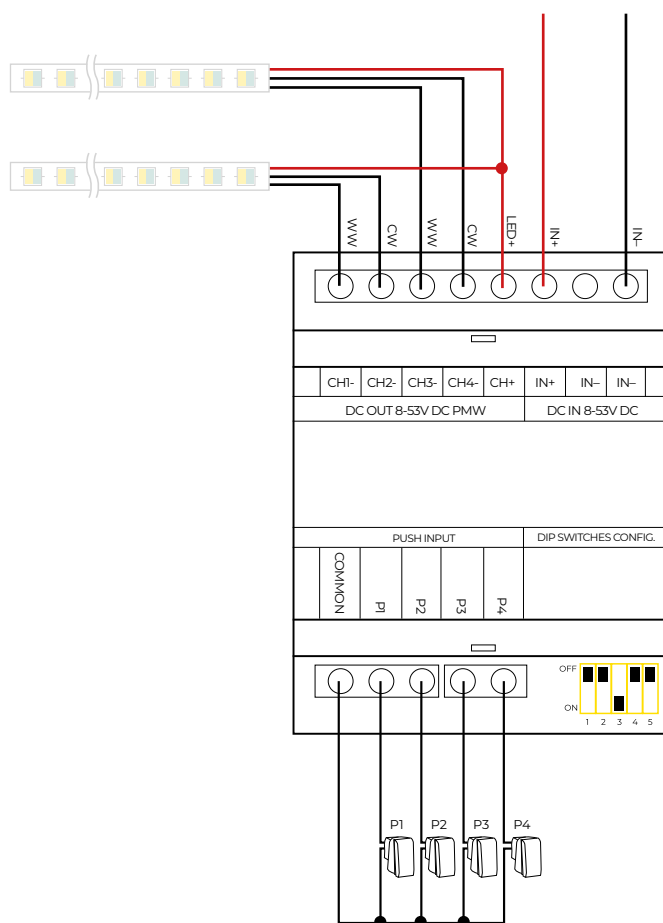


FIG. 5 - connection of 2 independent tunable white outputs with 2 MATTER CCT buttons (associated)



When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Modes of operation

2 independent tunable white outputs with 2 MATTER CCT buttons (not associated)

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 6** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 6**. In this mode, the output channels can be controlled via the MATTER protocol.

In this mode, the buttons are visible on MATTER and can be associated with other dimmers or actuators.

NB: in this mode, the buttons cannot act on the dimmer to which they are connected.

FIG. 6 - connection 2 independent adjustable white outputs with 2 MATTER CCT buttons (not associated)

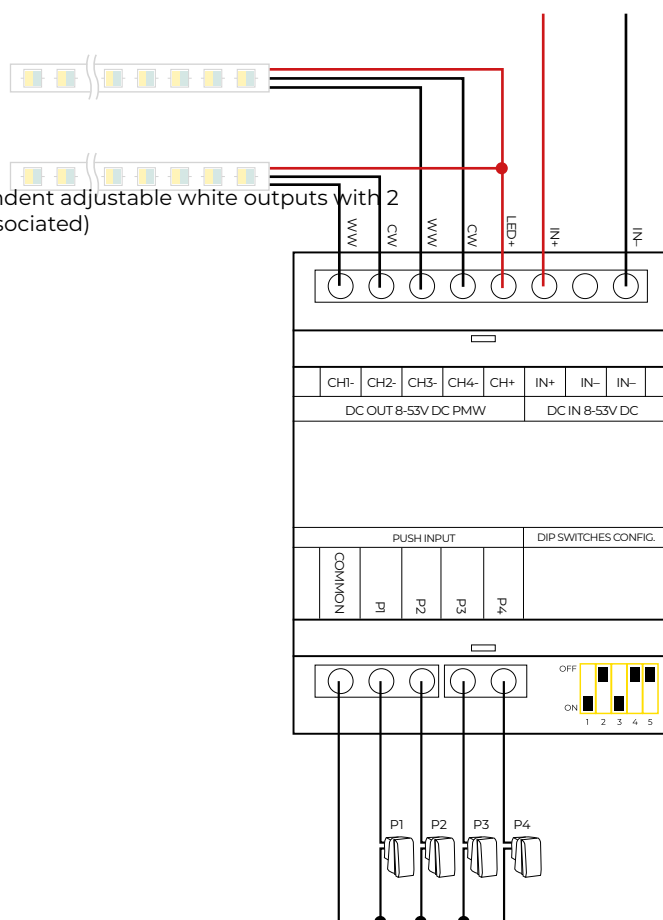


FIG. 6 - connection 2 tunable adjustable white outputs with 2 MATTER CCT buttons (not associated)



When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Modes of operation

RGB output with 3 local buttons

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 7** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 7**.

In this mode, the output channels can be controlled via the MATTER protocol or the local buttons.

- Button **P1** controls the HUE (colour) value of the RGB output.
- Button **P2** controls the SAT saturation of the RGB output.
- Button **P3** controls the intensity of the output (INT).

PUSH interface operation

Single click on P1, P2, P3 (quick press <1 sec)

- Turns the output on or off (ON/OFF).

Double click on P1, P2, P3 (quick press <1 sec)

- Sets maximum brightness (output = 100%).

Long press on P1, P2, P3 (press and hold >1 sec)

- If the dimmer is in the OFF state, sets the output to the minimum value (default = 1%).
- If the dimmer is in the ON state, pressing and holding allows you to change the colour (P1), saturation (P2) and intensity (P3).

The status of the output channels, modified by the control buttons, is also updated on MATTER.

In this mode, the buttons are not visible on MATTER.

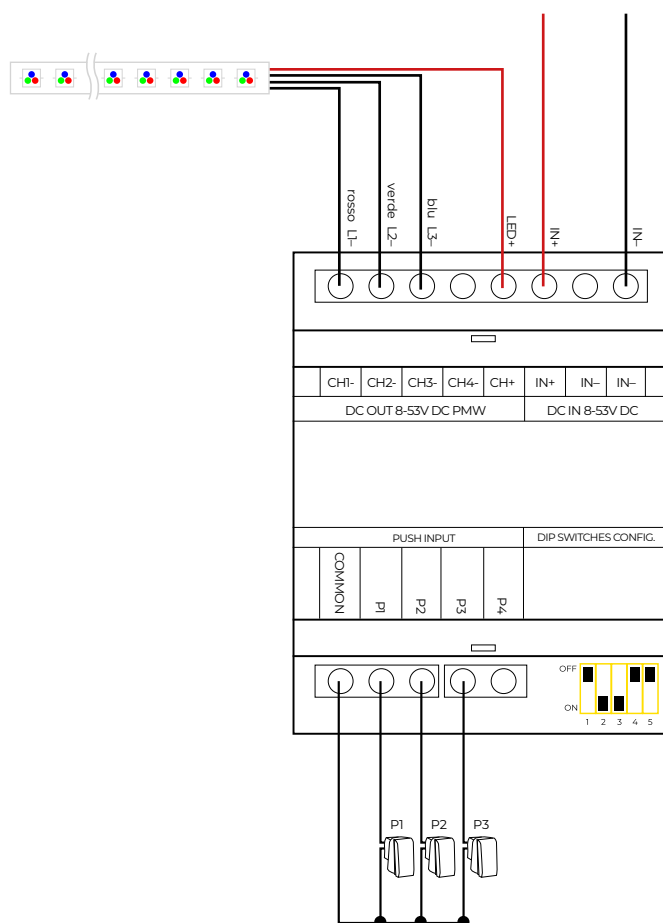


FIG. 7 - connection with 3 local buttons

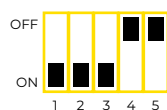


When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Modes of operation

RGB output with 3 local buttons and MATTER button (associated)

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 8** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 8**.

In this mode, the output channels can be controlled via the MATTER protocol or the local buttons.

- Button **P1** controls the HUE (colour) value of the RGB output.
- Button **P2** controls the SAT saturation of the RGB output.
- Button **P3** controls the intensity of the output (INT).

PUSH interface operation

Single click on P1, P2, P3 (quick press <1 sec)

- Turns the output on or off (ON/OFF).

Double click on P1, P2, P3 (quick press <1 sec)

- Sets maximum brightness (output = 100%).

Long press on P1, P2, P3 (press and hold >1 sec)

- If the dimmer is in the OFF state, sets the output to the minimum value (default = 1%).
- If the dimmer is in the ON state, pressing and holding allows you to change the colour (P1), saturation (P2) and intensity (P3).

The status of the output channels, modified by the control buttons, is also updated on MATTER.

In this mode, the buttons are visible on MATTER and act locally on the dimmer's output channels.

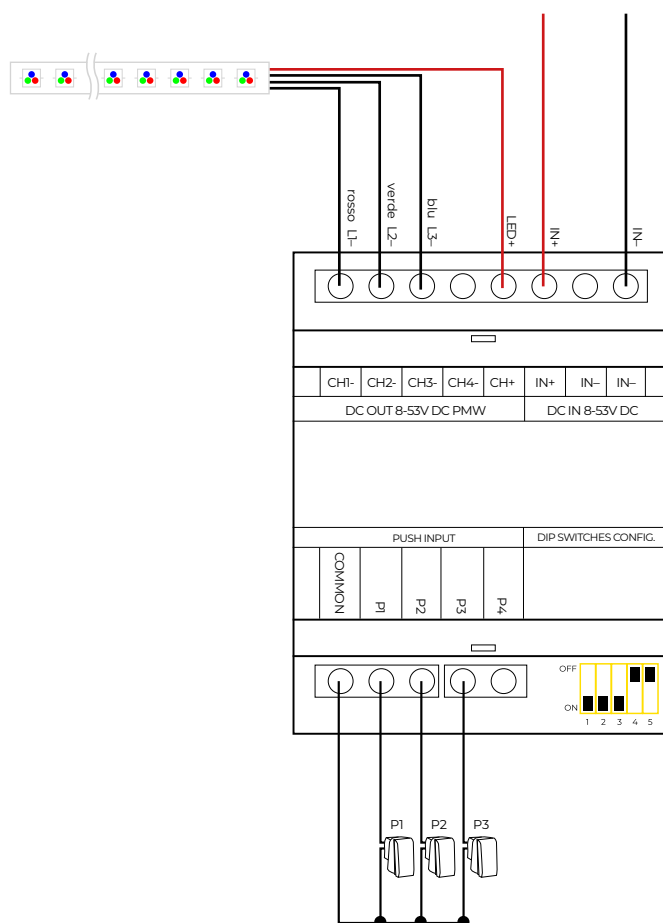


FIG. 8 - connection with 3 local buttons and MATTER (associated)



When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Modes of operation

RGB output with 3 local buttons and MATTER button (not associated)

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 9** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 9**.

In this mode, the output channels can be controlled via the MATTER protocol.

In this mode, the buttons are visible on MATTER and can be associated with other dimmers or actuators.

NB: in this mode, the buttons cannot act on the dimmer to which they are connected.

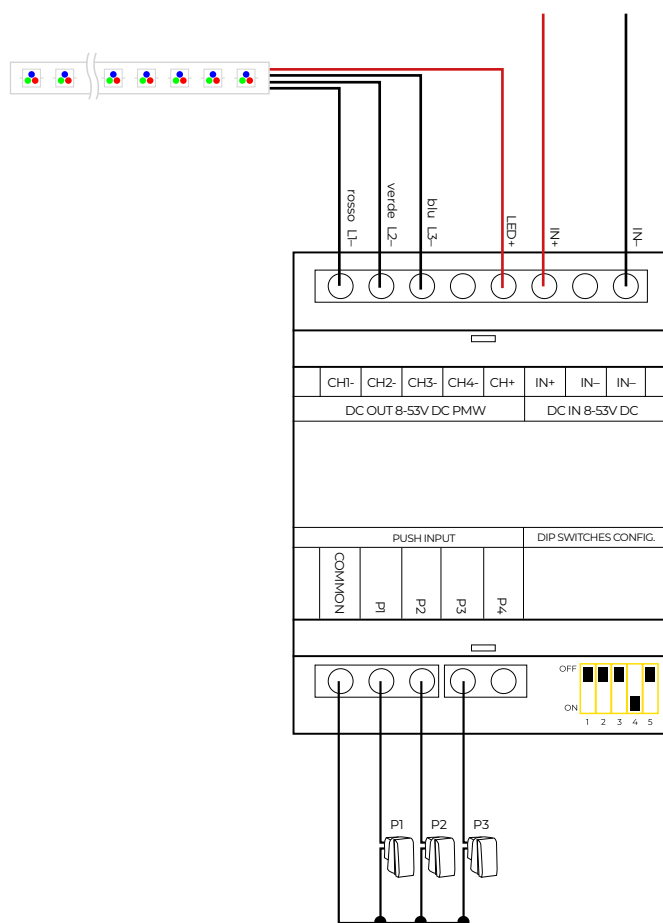


FIG. 9 - connection with 3 local buttons e MATTER (non associato)



When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Modes of operation

RGBW output with 4 local buttons

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 10** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 10**.

In this mode, the output channels can be controlled via the MATTER protocol or local buttons.

- Button **P1** controls the HUE (colour) value of the RGB output.
- Button **P2** controls the SAT saturation of the RGB output.
- Button **P3** controls the intensity of the output (INT).
- Button **P4** controls the status of the CH4 channel output (WHITE).

PUSH interface operation

Single click on P1, P2, P3, P4 (quick press <1 sec)

- Turns the output on or off (ON/OFF).

Double click on P1, P2, P3, P4 (quick press <1 sec)

- Sets maximum brightness (output = 100%).

Long press on P1, P2, P3, P4 (press and hold >1 sec)

- If the RGB output is OFF, P1, P2 and P3 set the RGB output to the minimum value (default = 1%)
- If CH4 (WHITE) is OFF, P4 sets the CH4 output to the minimum value (default = 1%)
- If the RGB output is ON, long press allows you to change the colour (P1), saturation (P2) and intensity (P3)
- If the CH4 (WHITE) output is ON, long press on P4 allows you to adjust the output intensity (up/down).

The status of the output channels, modified by the control buttons, is also updated on MATTER.

In this mode, the buttons are not visible on MATTER.

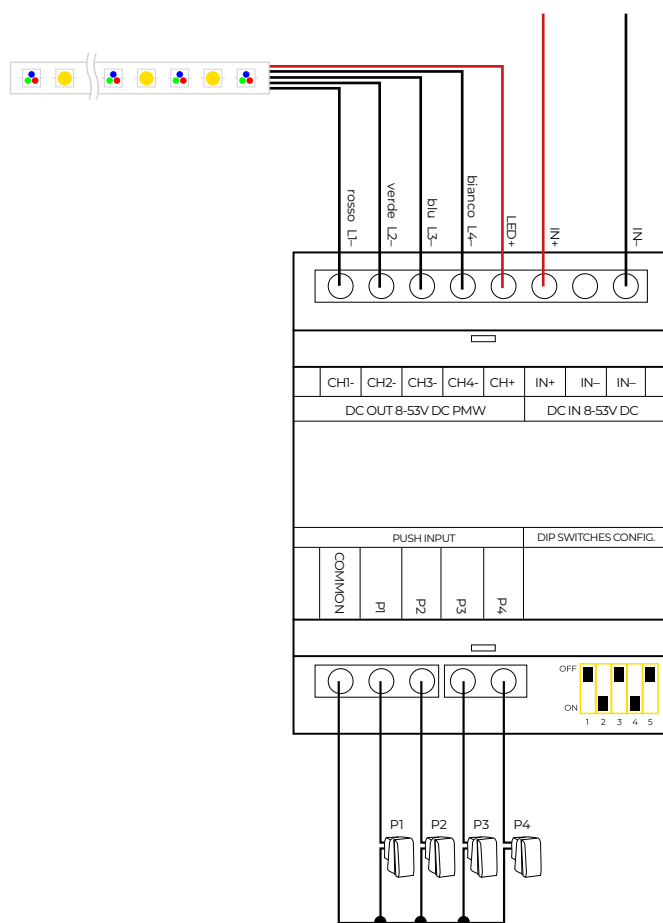


FIG. 10 - connection with 4 local buttons

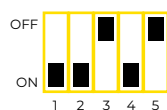


When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Modes of operation

RGBW output with 4 local buttons and MATTER button (associated)

Dip switch setting:



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

The dimmer must be powered according to the polarity indicated in **FIG. 11** via the DC IN+ and DC IN- terminals.

If the power supply polarity is reversed, the device will not be damaged. The outputs must be wired as shown in **FIG. 11**.

In this mode, the output channels can be controlled via the MATTER protocol or local buttons.

- Button **P1** controls the HUE (colour) value of the RGB output.
- Button **P2** controls the SAT saturation of the RGB output.
- Button **P3** controls the intensity of the output (INT).
- Button **P4** controls the status of the CH4 channel output (WHITE).

PUSH interface operation

Single click on P1, P2, P3, P4 (quick press <1 sec)

- Turns the output on or off (ON/OFF).

Double click on P1, P2, P3, P4 (quick press <1 sec)

- Sets maximum brightness (output = 100%).

Long press on P1, P2, P3, P4 (press and hold >1 sec)

- If the RGB output is OFF, P1, P2 and P3 set the RGB output to the minimum value (default = 1%)
- If CH4 (WHITE) is OFF, P4 sets the CH4 output to the minimum value (default = 1%)
- If the RGB output is ON, long press allows you to change the colour (P1), saturation (P2) and intensity (P3)
- If the CH4 (WHITE) output is ON, long press on P4 allows you to adjust the output intensity (up/down).

The status of the output channels, modified by the control buttons, is also updated on MATTER.

In this mode, the buttons are visible on MATTER and act locally on the dimmer's output channels.

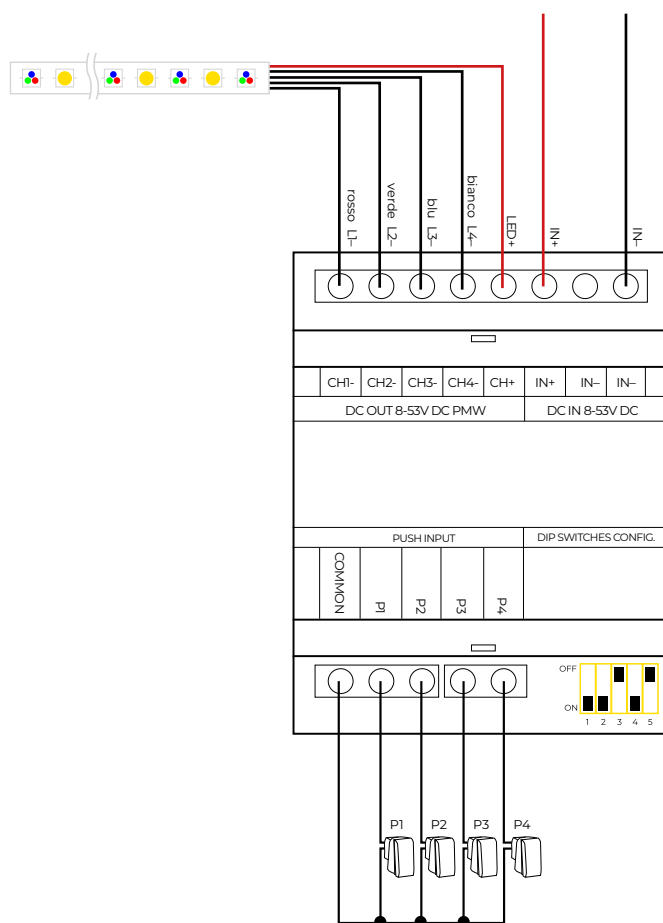


FIG. 11 - connection with 4 local buttons



When switched on, the device is visible for MATTER commissioning for approximately 5 minutes. The indicator light on the device will **flash slowly in blue**. After 5 minutes, the indicator LED will remain **steady blue**. If MATTER commissioning is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in the MATTER commissioning phase.

Guide to Installing Matter Devices

Overview of the Matter Standard

Matter is a unified connectivity standard for smart home devices, developed by the Connectivity Standards Alliance (CSA). It is based on IP protocols and uses Thread, Wi-Fi and Ethernet as transport layers, with Bluetooth LE for initial commissioning. The MATTER-4CV-DIN, MATTER-CV-M2 and MATTER-230V-M2 devices use Wi-Fi as the transport layer.

Prerequisites for MATTER products

Before proceeding with installation, you must check the following requirements:

- **Network Infrastructure:** A 2.4 GHz or 5 GHz home Wi-Fi network is required (depending on the device), or a Thread Border Router if the device uses the Thread protocol. Thread Border Routers can be integrated into smart speakers such as the HomePod mini, Nest Hub or Echo (4th generation).
- **Matter Controller:** At least one Matter-compatible ecosystem is required as the main controller. Options include Apple Home (iOS 16.1 or later), Google Home, Amazon Alexa, Samsung SmartThings or Home Assistant. The controller manages the commissioning and subsequent operation of the device.
- **Device Requirements:** Check that the device explicitly states the type of connectivity supported (Wi-Fi, Thread, or both via multi-protocol technology).

For the MATTER-4CV-DIN, MATTER-CV-M2 and MATTER-230V-M2 devices, the connectivity type is Wi-Fi

Installation Procedure

Step 1 – Physical Setup: Install the device in the desired location and connect it to the power supply. Ensure it is within range of the Wi-Fi network or a Thread Border Router. The device automatically enters pairing mode for 5 minutes after power is connected, indicated by the status LED flashing blue.

Step 2 - Scanning the QR Code: Every certified Matter device includes a unique QR code containing commissioning information in accordance with the Matter Onboarding Payload standard. Open the chosen controller app and select the option to add a new Matter device. Scan the QR code on the device or in the documentation. Alternatively, you can manually enter the 11- or 21-digit numerical code attached to the dimmer.

Step 3 – Network Commissioning: The app will establish a temporary Bluetooth LE connection with the device for the commissioning process. During this step, the controller will transmit the Wi-Fi network credentials or Thread network information to the device. This process uses the PASE (Password Authenticated Session Establishment) protocol to ensure a secure connection.

Step 4 - Final Configuration: Once connected to the network, the device will receive a unique Node ID within the Matter fabric. The app will prompt you to name the device and associate it with a specific room or zone.

The device will now be operational and controllable via the main controller.



Multi-Admin and Cross-Ecosystem Sharing

A key feature of Matter is its multi-admin capability, which allows a single device to be controlled simultaneously by multiple ecosystems. To add a device that has already been configured to a second controller, use the 'share' function in the first controller's app. A new temporary QR code will be generated, allowing the second ecosystem to join the existing fabric without resetting the device.

Relevant Technical Aspects

Security: Matter implements end-to-end encryption using PKI certificates and session keys derived via ECDH. Each commissioning creates new cryptographic credentials. Devices use certificate attestations to verify authenticity during the certification process.

Device Types: The Matter standard defines specific device types (lighting, outlets, sensors, locks, thermostats, etc.) with standardised command clusters. Check that the specific device features are supported by the chosen controller.

Firmware Updates: Matter devices support OTA (Over-The-Air) updates. Updates can be distributed via any controller

Common troubleshooting

If the device is not detected when scanning the QR code, check that Bluetooth is enabled on your mobile device and that the Matter device is actually in pairing mode. If the connection fails during network commissioning, check the Wi-Fi signal strength or whether there is an active Thread Border Router. If the problem persists, perform a factory reset on the dimmer.

For Thread devices, check that the Border Router is configured correctly and that the Thread network is operational via the smart home ecosystem settings.

Factory reset procedure for MATTER products

To reset the dimmer to its factory settings, follow this procedure:

- Switch off the device
- Change the configuration of at least one DIP switch
- Switch on the device
- Switch off the device
- Set the desired configuration using the DIP switches
- Switch on the device and proceed with network setup.