
user guide

dimmer

MATTER-230V-M2

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- TECHNICAL FEATURES
 - MODE OF OPERATION
 - 1 | 1-CHANNEL OUTPUT WITH 1 LOCAL BUTTON
 - 2 | 1-CHANNEL OUTPUT WITH 1 MATTER BUTTON (LOCALLY ASSIGNED)
 - 3 | 1-CHANNEL OUTPUT WITH 1 MATTER BUTTON (NOT ASSIGNED LOCALLY)
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 - SUMMARY OF DIP SWITCH SETTINGS

MATTER-230V-M2

MATTER inputs PHASE CUT output

TECHNICAL FEATURES

- Phase-cut dimmer with Push and MATTER inputs via Wi-Fi
- **AI edge output (default for mains-voltage LED strips)** or MOSFET trailing edge
- Power and output terminals: 0.05–3 mm² (30–12 AWG)
- Protection against: open circuit, voltage spikes, short circuit with internal 3A fuse
- UL-approved printed circuit board
- Input voltage range: 80–230 V AC 50/60 Hz
- Power output: 110 W at 110 V, 220 W at 220 V, 230 W at 230 V
- Maximum resistive load: 1 A. See table

SAFETY WARNINGS

- The device is not earthed
- Protection against accidental contact is provided by the enclosure
- Storage temperature: min: -40°C, max: 60°C
- Operating temperature: min: -20°C, max: 50°C
- Thermal cut-out: 150°C on uC
- Control inputs: Non-isolated push button x1
- Protection class: IP20
- Use only in dry environments
- Max. Tc point: 70°C
- CTc is positioned on the terminal screw corresponding to the Tc indication (see Figure A)



48x48x22,8 mm
weight: 35 gr

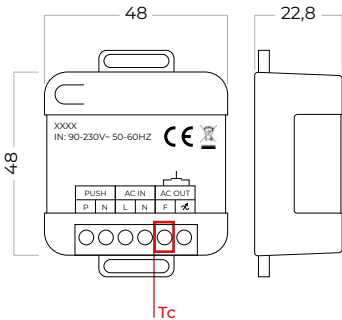


figure A

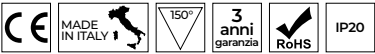
LOAD TYPE	MAXIMUM POWER
Incandescence - R	1A - 230W to 230V AC 1A - 110W to 110V AC
LINEAR LED - R CON PFC >0,9 e THD <10%	1A - 230W a 230V AC (up to 20 lamps) 1A - 110W a 110V AC (up to 20 lamps)
LED STRIP TENSIONE RETE - R	1A - 230W a 230V AC 1A - 110W a 110V AC
LED SWITCHING - RC CON PFC >0,9 e THD <10%	0.5A - 115W a 230V AC (up to 10 lamps) 0.5A - 55W a 110V AC (up to 10 lamps)
LED SWITCHING - RC CON PFC <0.9 o THD >10%	Depends on the peak current of the load (e.g. 0.1 A per lamp, max. 5 lamps)



IMPORTANT: In its factory settings, the AI Edge dimmer is only compatible with mains-voltage LED strips or purely resistive loads. To use it with other loads, you must first set it to Trailing Edge mode using the DIP switches on the rear panel before switching it on.

- Do not connect inductive loads
- Do not connect to a UPS with an output other than Pure Sine Wave

IMPORTANT: all lamps controlled by a single dimmer must be of the same type. All loads being controlled must be specified as DIMMABLE by the manufacturer.



CODE	VOLTAGE RANGE	MAX POWER	OUTPUTS	INPUT	LOAD TYPE	PART NUMBER
MATTER-230V-M2	80÷230 V AC	230W	1	PUSH / MATTER	monochrome	L803MATIT1A01

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.

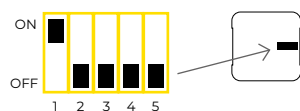
Disposal: at the end of its useful life, the product described in this data sheet is classified as waste from electronic equipment according to the European Directive 2012/19/EU (WEEE recast), implemented in Italy with Legislative Decree no. 49 of 14 March 2014, and cannot be disposed of as unsorted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

Mode of operation

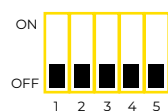
1 | 1-channel output with 1 local button

Dip switch setting:

Trailing Edge mode



 AI mode
compatible only with
mains-voltage LED strips



In this mode, the status of the output channel, as changed by the control button, is also updated on MATTER.

In this mode, the button is not visible on MATTER.

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

When switched on, the device is in MATTER setup mode 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 the MATTER setup is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in MATTER setup mode.

PUSH interface operation

Single click (quick press <1 sec)

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

Double-click (quick press <1 sec)

- Set maximum brightness (output = 100%).
Quick mode for maximum brightness.

Long press (press and hold for more than 1 second)

- If the dimmer is in the OFF state, it sets the output to the minimum value (default = 1%). Night-time anti-glare mode.
- If the dimmer is in the ON state, pressing and holding the button allows you to adjust the output (brighten/dim).

please note: ensure that the input and output connection cables are correctly inserted into the terminal block carriage and not underneath it. Incorrect insertion of the cable inside the carriage may lead to overheating or malfunctions.

Setting the minimum level

By setting DIP switch 2 to ON, you can force the minimum level to 15% for Trailing Edge (TE) phase cut-off and 5% for AI phase cut-off.

If DIP switch 2 is set to OFF, the minimum level is set to 2% for TE and 1% for AI.

You can set the minimum level via MATTER if the MATTER Controller supports this, leaving the DIP switch set to OFF.

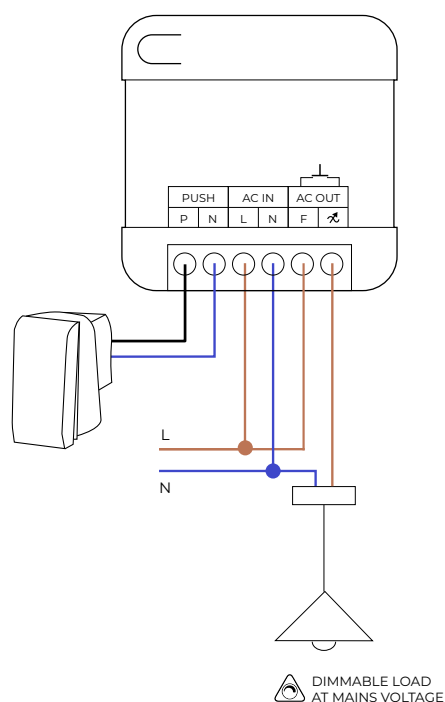


FIG. 1 - 6-wire connection (recommended) with load on the interrupted phase

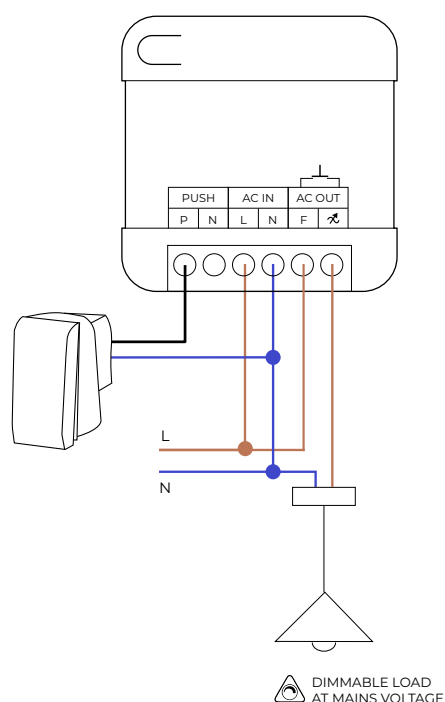


FIG. 2 - 5-wire connection with load on the interrupted phase

Mode of operation

2 | 1-channel output with 1 MATTER button (locally assigned)

Dip switch setting:

Trailing Edge mode



 AI mode
compatible only with
mains-voltage LED strips



In this mode, the status of the output channel, as changed by the control button, is also updated on MATTER.

In this mode, the button is visible on MATTER and acts locally on the dimmer's output channel.

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

When switched on, the device is in MATTER setup mode 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 the MATTER setup is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in MATTER setup mode.

PUSH interface operation

Single click (quick press <1 sec)

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

Double-click (quick press <1 sec)

- Set maximum brightness (output = 100%).
Quick mode for maximum brightness.

Long press (press and hold for more than 1 second)

- If the dimmer is in the OFF state, it sets the output to the minimum value (default = 1%). Night-time anti-glare mode.
- If the dimmer is in the ON state, pressing and holding the button allows you to adjust the output (brighten/dim).

please note: ensure that the input and output connection cables are correctly inserted into the terminal block carriage and not underneath it. Incorrect insertion of the cable inside the carriage may lead to overheating or malfunctions.

Setting the minimum level

By setting DIP switch 2 to ON, you can force the minimum level to 15% for Trailing Edge (TE) phase cut-off and 5% for AI phase cut-off.

If DIP switch 2 is set to OFF, the minimum level is set to 2% for TE and 1% for AI.

You can set the minimum level via MATTER if the MATTER Controller supports this, leaving the DIP switch set to OFF.

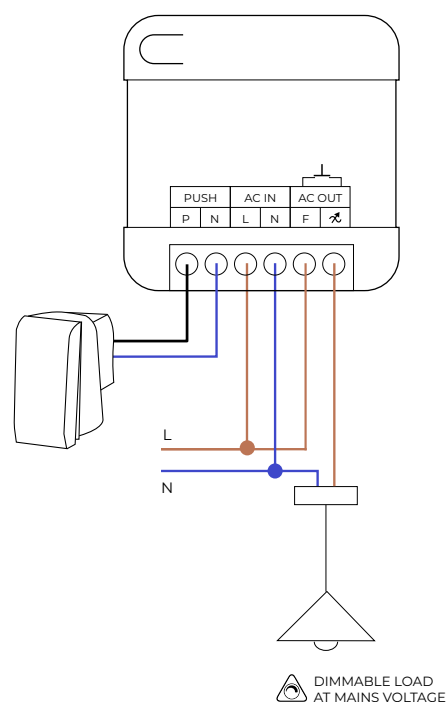


FIG. 3 - 6-wire connection (recommended) with load on the interrupted phase

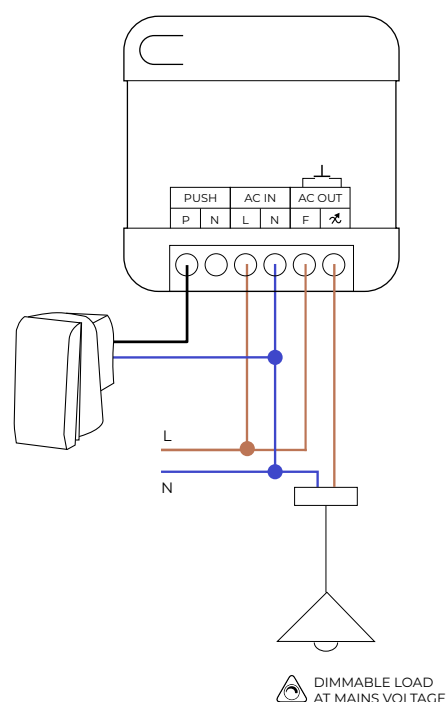


FIG. 4 - 5-wire connection with load on the interrupted phase

Mode of operation

3 | 1-channel output with 1 MATTER button (not assigned locally)

Dip switch setting:

Trailing Edge mode



 AI mode
compatible only with
mains-voltage LED strips



In this mode, the button is visible on MATTER and can be paired with other dimmers or actuators.

In this mode, the button cannot control the dimmer to which it is connected.

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

When switched on, the device is in MATTER setup mode 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 the MATTER setup is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in MATTER setup mode.

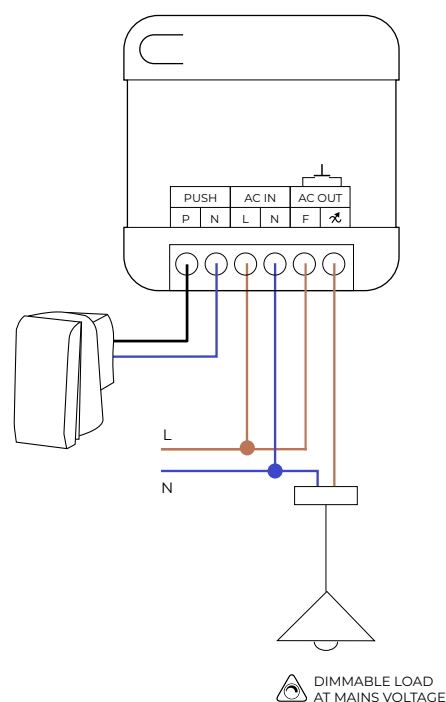


FIG. 5 - 6-wire connection (recommended) with load on the interrupted phase

Setting the minimum level

By setting DIP switch 2 to ON, you can force the minimum level to 15% for Trailing Edge (TE) phase cut-off and 5% for AI phase cut-off.

If DIP switch 2 is set to OFF, the minimum level is set to 2% for TE and 1% for AI.

You can set the minimum level via MATTER if the MATTER Controller supports this, leaving the DIP switch set to OFF.

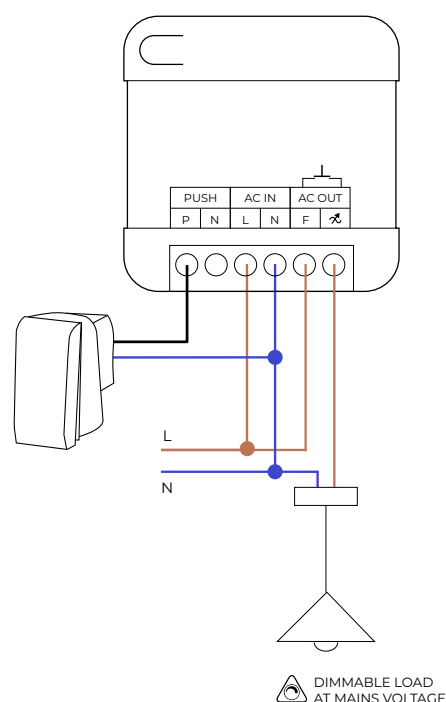


FIG. 6 - 5-wire connection with load on the interrupted phase

Mode of operation

4 | 1-channel output with 1 MATTER GENERIC SWITCH button (not assigned locally)

Dip switch setting:

Trailing Edge mode



 AI mode
compatible only with
mains-voltage LED strips



In this mode, the button appears in MATTER as a GENERIC SWITCH and can be linked via routines to scenes or to control other dimmers or actuators.

The GENERIC SWITCH mode ensures greater compatibility with Google Nest and Amazon Alexa voice assistants.

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

When switched on, the device is in MATTER setup mode 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 the MATTER setup is successful, the LED will turn **steady green**. A **yellow flash** indicates that the dimmer is in MATTER setup mode.

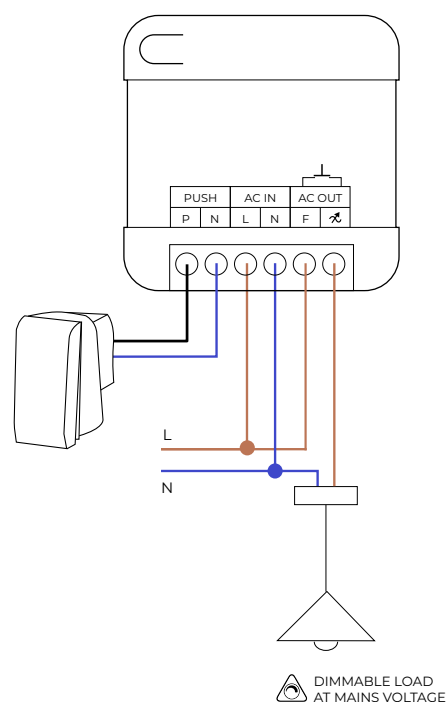


FIG. 7 - 6-wire connection (recommended) with load on the interrupted phase

Setting the minimum level

By setting DIP switch 2 to ON, you can force the minimum level to 15% for Trailing Edge (TE) phase cut-off and 5% for AI phase cut-off.

If DIP switch 2 is set to OFF, the minimum level is set to 2% for TE and 1% for AI.

You can set the minimum level via MATTER if the MATTER Controller supports this, leaving the DIP switch set to OFF.

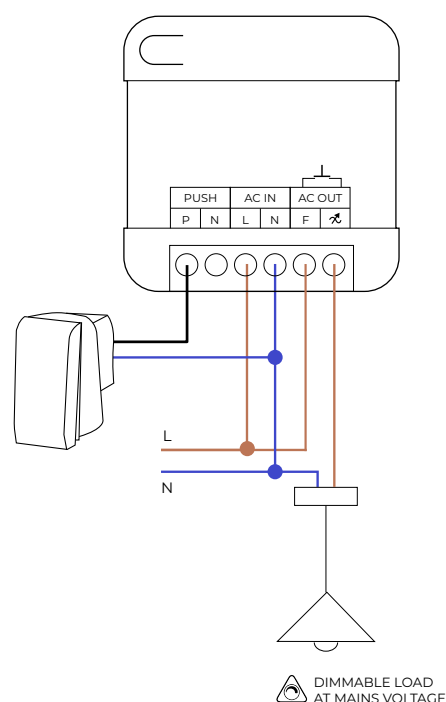


FIG. 8 - 5-wire connection with load on the interrupted phase

Summary of DIP switch settings

1 | 1-channel output with 1 local button

Trailing Edge mode



AI mode
compatible only with
mains-voltage LED strips



2 | 1-channel output with 1 MATTER button (locally assigned)

Trailing Edge mode



AI mode
compatible only with
mains-voltage LED strips



3 | 1-channel output with 1 MATTER button (not assigned locally)

Trailing Edge mode

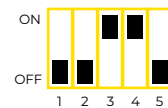


AI mode
compatible only with
mains-voltage LED strips



4 | 1-channel output with 1 MATTER GENERIC SWITCH button (not assigned locally)

Trailing Edge mode



AI mode
compatible only with
mains-voltage LED strips

