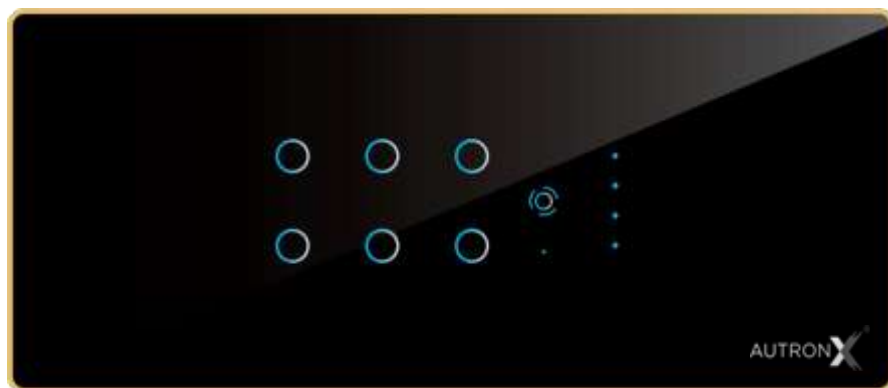




SMART TOUCH SWITCHES

Model: KRAY



Compact
Size



Customization



Fast
Response



Voice
Assistant



Device
Sharing

INTRODUCTION

The **KRAY Series Smart Touch Switches** combine premium design with intelligent smart control for modern spaces. Built with **Capacitive Feather Touch Technology** and a high-sensitivity touch surface, KRAY enables smooth and reliable control of lighting, fan, curtain, socket, and automation functions. With support for smart connectivity, scene control, and scheduling, the series delivers seamless operation while featuring a distinctive **White and Blue dual-colour backlight** for enhanced visibility and a refined appearance.

TECHNICAL SPECIFICATIONS

Model : KRAY

Product Name	: Smart Touch Switches
Modular Sizes	: 2M / 4M / 6M / 8M / 12M
Touch Technology	: Capacitive Feather Touch Technology
Touch Sensitivity	: High-Sensitivity Multi-touch Surface
Panel Material	: Glass & Acrylic (<i>Matte / Glossy</i>)
Input Voltage	: 100-240 V/AC 50/60Hz
Electrical Compatibility	: Direct AC Input / Inverter Compatible
Supported Load Capacity	: 6 Amp & 16 Amp
Load Control Types	: Switching Dimming Fan Control Curtain Control
Automation Functions	: Scene Control / Scheduling / Timer / Child Lock
Fan Control	: Sliding Touch Fan Speed Control*
Supported Load Types	: Lighting Fan Socket Appliance Control
Socket Options	: 3-Pin Socket, Universal Socket, HV Socket
USB Option	: USB Type-A / USB Type-C (5V/DC 2Amp) with fast charging
Communication Protocol	: Wi-Fi 2.4GHz Zigbee IR Remote
Protection Features	: Under-Voltage Cut-off / Over-Voltage Cut-off
Safety Features	: Water Resistant / Shock Protection

KEY FEATURES

✨ **Capacitive Feather Touch Technology** – Smooth, fast, and highly responsive touch operation.

🎨 **Frame & Body Color Customization** – Customize the switch finish to match interior aesthetics.

🟦🟩 **White & Blue Backlight** – Elegant dual-color indication for improved visibility and premium appearance.

💡 **Dimming & Lighting Control** – Adjust lighting levels for comfort, ambience, and energy efficiency.

🌀 **Fan Speed Control** – Smooth touch-based fan speed adjustment.

📱 **Smart Control & Automation** – App control with scene creation, scheduling, and timer functions.

🔌 **Inverter Backup Support** – Selected segments continue operating during power outages.

🔒 **Child Lock Safety** – Prevent accidental touch operation and unauthorized access.

⚡ **Voltage Protection** – Built-in **Under Voltage and Over Voltage Protection** for stable operation.

⚡ **Shock Protection** – Enhanced electrical safety for daily usage.

💧 **Water Resistant Design** – Improved durability and protection against moisture exposure.

🏆 **Premium Build Quality** – Manufactured using high-quality materials for long-lasting performance.

🔌 **Multiple Utility Options** – Supports sockets, USB charging, and smart control combinations.

🔧 **Retrofit Installation** – Easy upgrade with minimal modification to existing wiring.

🏠 **Smart Home Ready** – Supports integration with lighting, curtains, automation, and connected devices.

SWITCHBOARD INTERFACE

Terminals

Let's understand the terminal connections.

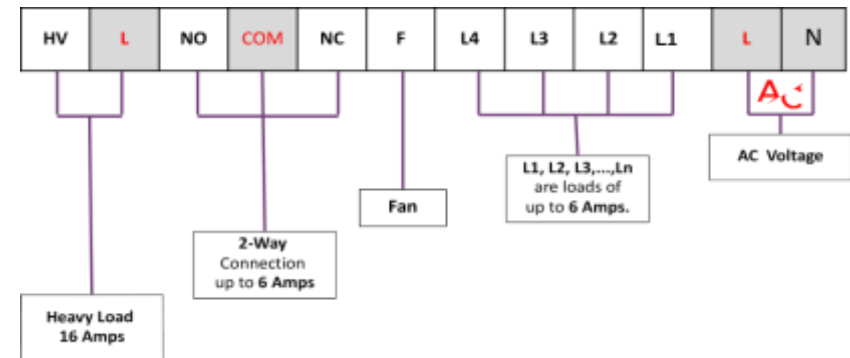
- L & N → Main Power Supply Input
 - L → **Phase (Live)**
 - N → **Neutral**
- L1, L2, L3, L4 → Load Output Connections
- HV → Heavy Load Connection Terminal
- NO / NC / COM → Switching Terminals

For Regular Load Connection:

Use NO and COM terminals.

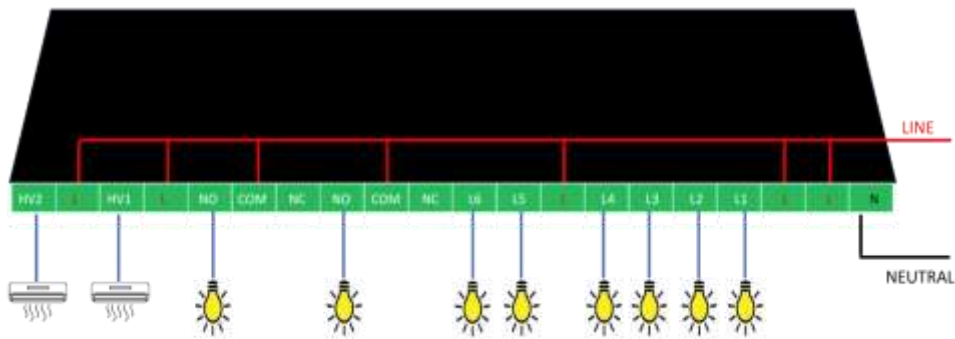
For 2-Way Switching:

Use NO, NC, and COM terminals.



WIRING CONNECTIONS

1. Turn **OFF** the main power supply before installation.
2. Connect the **Phase (Live)** wire to the **L** terminal.
3. Connect the **Neutral** wire to the **N** terminal.
4. Loop the **Phase wire** to all required **L terminals** and **COM terminal**.
5. Connect the loads to **L1, L2, L3, L4 / NO** terminals as required.
6. Connect the **Neutral wire** as common for all loads.
7. Attach the **backend module** to the touch panel using the provided connector.
8. After completing all wiring connections, verify all connections carefully.
9. Turn **ON** the power supply.

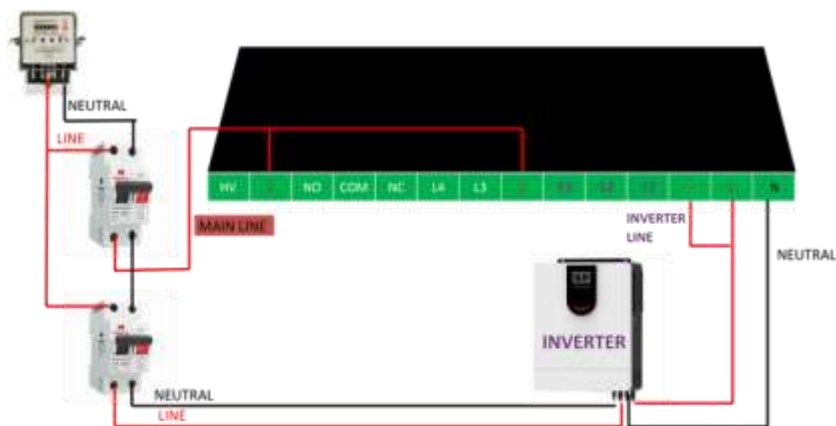


INVERTER WIRING CONNECTION

1. Turn **OFF** the power supply.
2. Connect **Inverter Phase (Live)** to **L** terminal.
3. Connect **Neutral** to **N** terminal.
4. Loop the inverter phase to the **L terminal** of the segment(s) required during backup.
5. Connect the **Main Phase** to the remaining **L terminals, HV & COM** terminal.
6. Connect loads to **L1, L2, L3, and L4...n**
7. **Neutral is common** for all loads.
8. Attach the **backend module** to the touch panel using the provided connector.
9. Turn **ON** the power supply.

Note:

- Inverter-connected segments work during power failure.
- Remaining segments operate on the main power supply.



2-WAY SWITCHING CONNECTION

- **Regular Load:** Use **NO + COM**
- **2-Way Switching:** Use **NO + NC + COM**

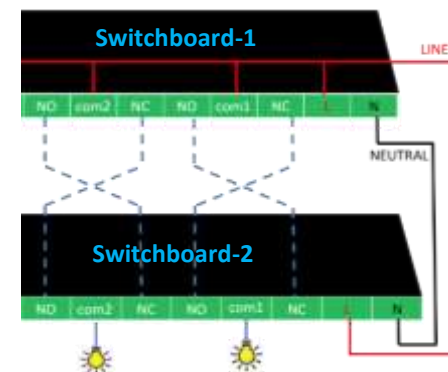
Connections

- Turn **OFF** the power supply.
- Connect the **Phase (Live)** wire to the **L terminal** on both switch boards.
- Connect the **Neutral** wire to the **N terminal** on both switch boards.

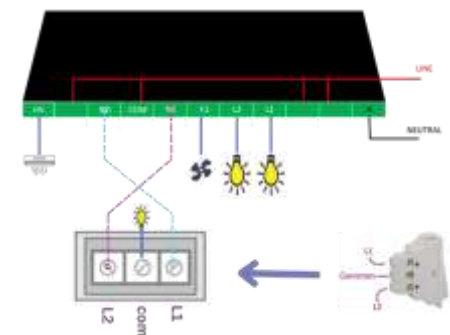
Connect:

- **NO (Switch Board 1) → NC (Switch Board 2)**
- **NC (Switch Board 1) → NO (Switch Board 2)**
- Connect **COM (Switch Board 1)** to **Live (Phase)**.
- Connect **COM (Switch Board 2)** to the **Load**.

- Keep **Neutral common** for all loads.
- Connect the backend module to both touch panels.
- Verify all wiring connections and turn **ON** the power supply.



2-Way Connection for
2 Touch Switches



2-Way Connection with
Manual Switch

MOBILE CONFIGURATION PROCESS

1. Pairing setup

Mode 1 – Automatic Pairing Mode

1. Insert the **Wi-Fi module** into the touch panel.
2. The **Blue LED** will start blinking, indicating the device is in pairing mode.

Mode 2 – Manual Pairing Mode

1. If the **Blue LED** is not blinking, tap the **first or second switch 12 times**.
2. The **Blue LED** will begin blinking, indicating the device is ready for pairing.

2. Configuration process

1. Open the mobile app and select **“Add Device.”**
2. When the pop-up appears showing **“Found equipment to be added: 1,”** tap **“Add.”**
3. Select the detected device to begin the **configuration process**.
4. Enter your **Wi-Fi credentials** and tap **“Next.”**
5. Wait **10–120 seconds** while the device completes configuration and connection (time may vary depending on network conditions).
6. Once successfully paired, the device is ready to control through the mobile application.

 Control your home lighting, AC, and connected appliances anytime, anywhere.

 Enable voice assistant support for convenient hands-free control.

ALL WIRING CONNECTIONS



SCAN THE QR CODE TO VIEW WIRING CONNECTION DIAGRAMS