RAPTORTRON · USER MANUAL · SMART SWITCH

# BSP

Installation, pairing and safety instructions for the BSP integrated smart control panel with infrared, curtain, ON/OFF, dimmer control and OLED display.




User manual · English edition

# 01 Product overview




BSP integrated smart control panel.

Integrated smart control panel: infrared, curtain, 4 ON/OFF channels, 2 dimmer lights and an OLED display.

| ITEM | DETAIL |
|---|---|
| **Model** | BSP |
| **Category** | Smart switch |

# 02 Features

1. Controls 1 infrared device (TV, air conditioner, audio system...).
2. Controls 1 motor-driven device such as curtains, roller shutters...
3. ON/OFF control of 4 channels of AC220V electrical devices and 4 scenes.
4. Controls 2 dimmer lights.
5. OLED display showing the date and time, device names and scene names.
6. Scene control: 2 channels.

# 03 Technical specifications

## 01 Design & dimensions

| SPECIFICATION | VALUE |
|---|---|
| **Dimensions** | 171mm x 86mm x 7.3mm |
| **Compatible flush box** | 135mm x 75mm x 50mm |

## 02 Control interface

| SPECIFICATION | VALUE |
|---|---|
| **Number of control keys** | 14 capacitive touch control keys |
| **Display** | Mono OLED - 0.96 inch |

### 03 Control type

| SPECIFICATION | VALUE |
|---|---|
| **Relay (contact open/close) control** | 6 channels |
| **Dry-contact output control** | 1 channel |
| **Infrared control** | 1 channel |
| **Scene control** | 2 channels |

### 04 Power & load

| SPECIFICATION | VALUE |
|---|---|
| **Input voltage** | 180VAC ~ 240VAC, 50Hz~60Hz |
| **Output power** | Standard 500W/channel. Max inrush current = 6A |
| **No-load power consumption** | 0.2W |
| **Protection** | Overvoltage, undervoltage, interference protection, surge protection, mains phase imbalance |

### 05 Processor

| SPECIFICATION | VALUE |
|---|---|
| **RAM/ROM/FLASH** | 128KB |

### 06 Indicators & alerts

| SPECIFICATION | VALUE |
|---|---|
| **Built-in speaker** | Yes |

## 04 Installation guide

### In the box

- Smart switch body
- Touch glass panel with bezel
- 2 wall screws
- Quick guide & warranty card

### Installation steps

1. **Switch off the power.** Turn off the main circuit breaker for the area where the switch is installed. Use a voltage tester to confirm that there is no power at the switch location.
2. **Connect the wires.** Connect the L (Live) and N (Neutral) wires to the matching terminals on the switch body. For a switch that controls loads: connect the load wire (L-out) to the device. For a curtain switch: connect the 2 dry contacts (NO) to the Open/Close motor.
3. **Mount in the flush box.** Place the switch body in the 75×75mm flush box and tighten the 2 screws evenly; make sure the face sits flat against the wall.
4. **Fit the glass panel.** Align the touch glass panel with the body and press all 4 corners evenly until it clicks into place; fit the decorative bezel on the outside.
5. **Restore power.** Switch the circuit breaker back on. The indicator LED lights up and the device enters standby, waiting to be connected.

## 05 Connection guide

### Preparation

- Raptortron smart switch
- 1 central hub with an Internet connection
- Raptortron app already connected to the central controller (make sure the phone and the central controller are on the same Internet network)

Download the Raptortron app for Android or iOS.

### In the Raptortron app: auto learn

1. **Tap.** Open the Raptortron app, tap the "Menu" icon at the top of the screen, then select "Devices".
2. **Tap.** Tap the "Auto learn" icon.
3. **Tap.** When the "Auto learn" dialog appears, tick the "I have understood and agree" box, then tap **"OK"** to confirm.
4. The system starts a 60-second countdown to scan automatically and complete the device connection.

### In the Raptortron app: manual learn

1. Open the "Menu" in the app, then go to "Devices".
2. **Press and hold.** Press and hold the icon of the device that you want to re-learn or replace.
3. In the list of options that appears, select "Manual learn".
4. **Tap.** When the "Manual learn" dialog appears, tap the "Learn" button. The dialog shows the Device code and the Serial number of the device.
5. The app counts down 60 seconds to finish synchronising and remembering the new device.

### Teaching the device ID to the central controller

Do this on the device while the app is counting down.

1. **Press and hold.** Press and hold the **rotary knob (1)** to enter the MENU. Select the "Add device" option; the OLED display shows the text "Press 1 to start".
2. **Press.** Press the rotary knob once more to teach the ID. Make sure the MCE is in ID-teaching mode.

### Result

- **If the ID is taught successfully:** the device exits automatically.
- **If teaching the ID fails:** to try again, press the rotary knob once more, or press and hold it to exit.

**Important**

- Auto learn fails if the number of devices exceeds the capacity limit of the central controller.
- In that case, see the Technical specifications of the central controller for the number of devices allowed, or switch to the manual learn method.

## 06 Safety notes

! Use only a power supply that matches the technical specifications in this document. Using the wrong power supply can damage the device and be dangerous.

! Do not open or repair the device while it is powered. All electrical wiring must be done by a qualified electrician.

! Keep the device in a dry place, away from direct water splashes (except models explicitly rated as water-resistant, IP xx).

! The product is covered by the official Raptortron warranty policy. Please keep your purchase invoice for the best support.

English edition translated in full from the manufacturer's original manual. Specifications are subject to change; current data: https://raptortron.com/product-bsp.html. Online version: https://raptortron.com/manuals/bsp/