

RPA

Shutter Motor Control Board



KONTAL

CE



Before you start using your device, be sure to read the user manual. Follow the steps described in the installation, electrical connection, and first start-up sections carefully, step by step. After this stage, the product owner/user must keep this user manual in a known and accessible place throughout the product's lifetime.

- Keep the product in a dry environment. Otherwise, the product may malfunction.
- Batteries or rechargeable batteries used in products are not covered by the warranty. Likewise, malfunctions caused by battery leakage or discharge in products that have reached the end of their shelf life are not covered by the warranty.
- All service and repair operations may be carried out only by Kontal Elektronik technical service. The product must not be tampered with by any other persons.
- The operating voltage of each product is stated on its label. Do not supply the product from any source other than this voltage value.



- ✓ Using the product in a manner that does not comply with the items stated above may cause fire, serious personal injury, or damage to the product or the structure it is installed in. Kontal Elektronik San. ve Tic. Ltd. Şti. accepts no responsibility for such situations caused by the user.
- ✓ This symbol will be used for important points in the following sections.



- ✓ Do not touch the product's power supply points with bare hands.
- This symbol will be used for voltage-related warnings in the following sections.



- This symbol on the label indicates that the product's supply voltage is DC.



- This symbol on the label indicates that the product has reinforced insulation.



- This symbol on the product or its packaging indicates that this product must not be treated as ordinary household waste. Instead, the product must be handed over to the appropriate collection points for the recycling of electronic equipment. Incorrect disposal of the product may lead to negative consequences for the environment and human health.



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- Make sure the system is properly grounded for the product to operate safely.

1.DESRIPTION

RPA is a control unit designed to safely and practically control 220V AC tubular and shutter motor systems. **ROLAN series remote controls** provide wireless control, as well as manual control via an external button input.

1.1 Box Contents

1x RPA Shutter Motor Control Board	1x 17cm Internal Cable Antenna
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**For custom orders, the box contents may vary depending on the project or customer request.*

2.TECHNICAL SPECIFICATIONS

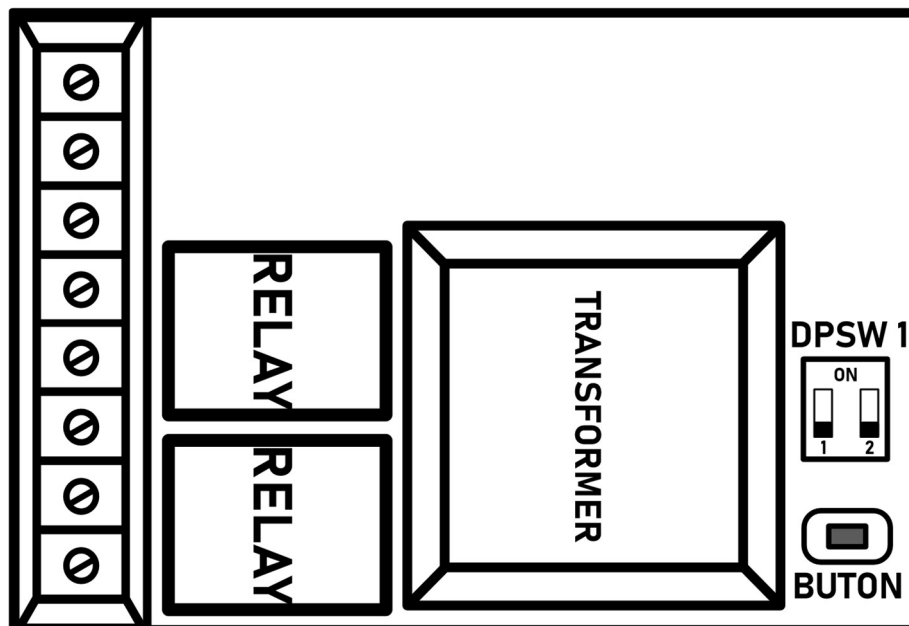
Model	RPA
Product Code	K001-01
Operating Voltage	220V AC
Operating Current	11mA @ 220V AC
Operating Frequency	433.92MHz
Operating Temperature	-20 °C +55 °C
Contact Type	220V AC
Contact Capacity	250V AC 10A
Contact Hold Time	120sec
Remote Capacity	35
Weight	173g
Dimensions (Width X Length X Width)	82.5 x 108.5 x 35mm

3.RPA – USER CONFIGURATION COMPONENTS

BUTTON : With this component, you can perform remote control pairing/deletion on the product.

DIP SWITCH : With this component, you can activate/deactivate the product's remote learning and automatic learning features.

4.RPA – CONTROL BOARD



5. RPA – REMOTE CONTROL PAIRING / DELETION

5.1 Remote Control Pairing

1. Remote Control Programming:

Before registering a new remote control to the receiver board, *your Rolan model remote control LCD CODER* must be properly programmed using the device.

2. Powering the Board:

To operate the receiver board, activate the system by applying the appropriate supply voltage to your control board.

3. Start-up Warning:

When the board is powered, the buzzer on the board will activate and give an audible warning:

- **3 short beeps:** No remote control has been registered before.
- **1 short beep:** A remote control has already been registered before.

4. Remote Control Learning Procedures:

The single button on the receiver board is used for the following operations:

- Registering a New Remote Control:

- Remove the top cover of the product.
- Make the power connections of the product.
- Press and release the button on the product once.
- Then, a beep sound of approximately **7–8 seconds** will be heard from the buzzer on the product. During this time, **by pressing the relevant buttons of the ROLAN series remote controls you want to teach**, you can register them to the RPA control board. If the remote control is registered successfully, the buzzer will give a **3–4 short and fast beep** sound. If the remote control is not registered, the learning mode will end and the audible warning will stop.
- **If the First Remote Control Is Being Registered:**
If a remote control is being registered to the receiver board for the **first time**, the **channel** to which the registered button belongs is set as the operating channel of the system. All remote controls to be registered afterwards must have **the same channel** as this designated channel. In other words, only remote controls with **the same channel** can be registered to a single receiver board.

5. Channel and Relay Mapping:

In 2- and 4-channel receivers, the relevant channel of the registered remote control controls **the 1st relay**. The following channels automatically trigger the other relays in sequence.

For example:

- Remote control's **1st button → 1st relay** / Remote control's **3rd button → 3rd relay**

- Remote control's **2nd button → 2nd Relay** / Remote control's **4th button → 4th Relay**

These channels do not need to be separately taught to the receiver board. The control board automatically recognizes consecutive channels.

5.2 Remote Control Deletion

- Remove the top cover of the product.
- Disconnect the power of the product.
- Press and hold the button on the product, then reapply power to the product.
- Then a beep warning sound will come from the buzzer on the product. Keep holding the button during this time.
- When approximately **5–6 intermittent beep sounds** are heard from the buzzer, **you can release the button**. At the end of this process, **the product's remote control memory will be erased**.

5.3 Remote Learning Mode



For this feature to be used, dip switch No. 1 must be in the ON position.

Thanks to this feature, new remote controls can be easily registered to the system without needing to physically access the RPA control board.

To perform this operation, apply the following steps in order:

Step 1: Verify that switch **No. 1 of the 2-way dip switch on the RPA control board is in the "ON" (open) position**.

Step 2: Take one of the remote controls **already registered** to the system. On this remote control, **press and hold the 1st button (channel 1) for approximately 12–15 seconds** (do not lift your finger off the button).

At the end of this period, the remote control will send a signal that automatically switches the RPA board into "remote learning" mode.

Step 3: You can conveniently register your new remote control to the control board that has entered learning mode, without touching the board by hand or making any physical intervention.



For the operation to be successful, the remote control used in step 2 must definitely already be registered in the system and in working condition.

5.4 Automatic Learning Mode



For this feature to be used, dip switch No. 2 must be in the ON position.

Thanks to RPA receiver boards, new remote controls can be easily registered to the system without physically accessing the receiver board. The operating steps and principles are given below:

Step 1: For this feature to be active, set switch **No. 2 of the 2-way dip switch on the board to "ON" position**.

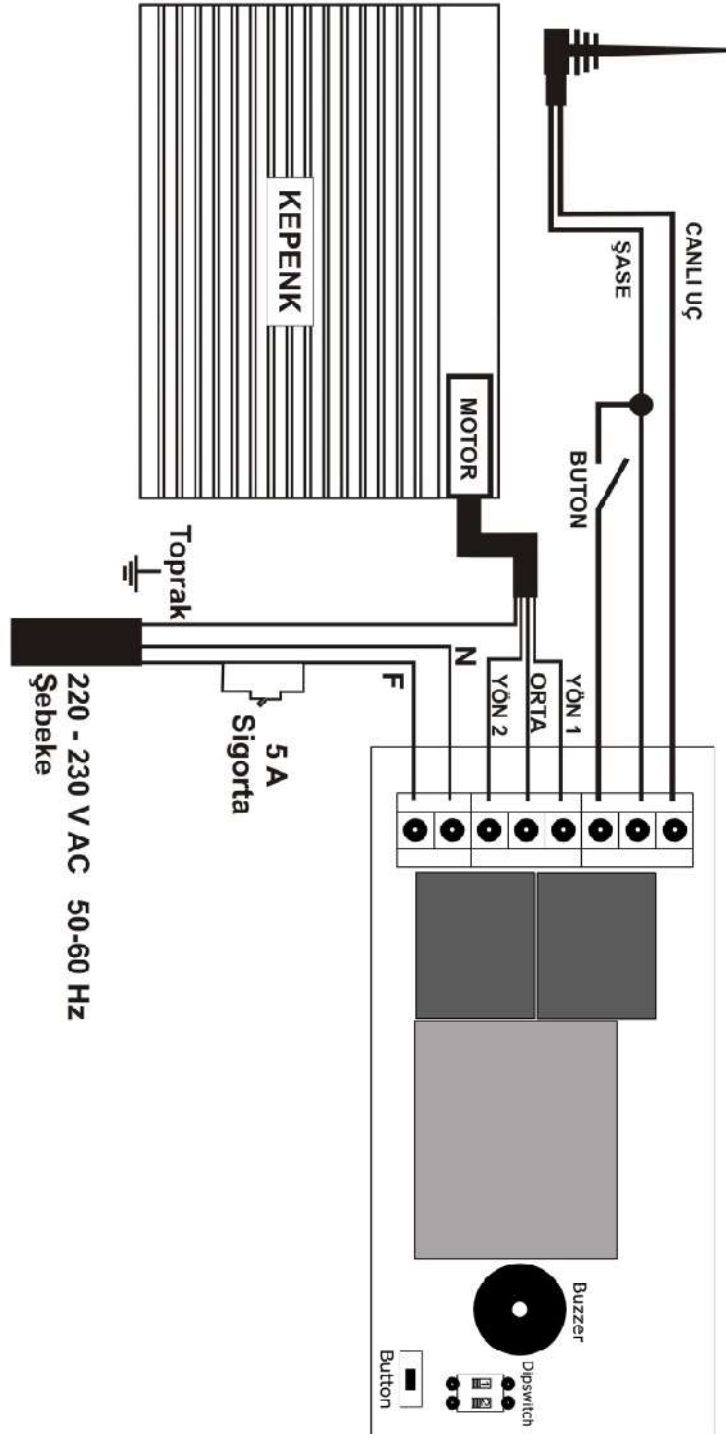
Step 2: To start wireless learning mode, **at least one remote control must have been previously registered** to the receiver board.

Step 3: Press and release the relevant button of the remote control you want to register to the product.

Each time the receiver board learns a new remote control:

- The LED light will flash 3 times.
- The buzzer will give 3 "beep" warning sounds.

6.RPA – WIRING DIAGRAM





Always disconnect the power of the device before making electrical connections. Otherwise, electric shock or device malfunction may occur.



Never touch the connection points after the power connections of the product have been made!

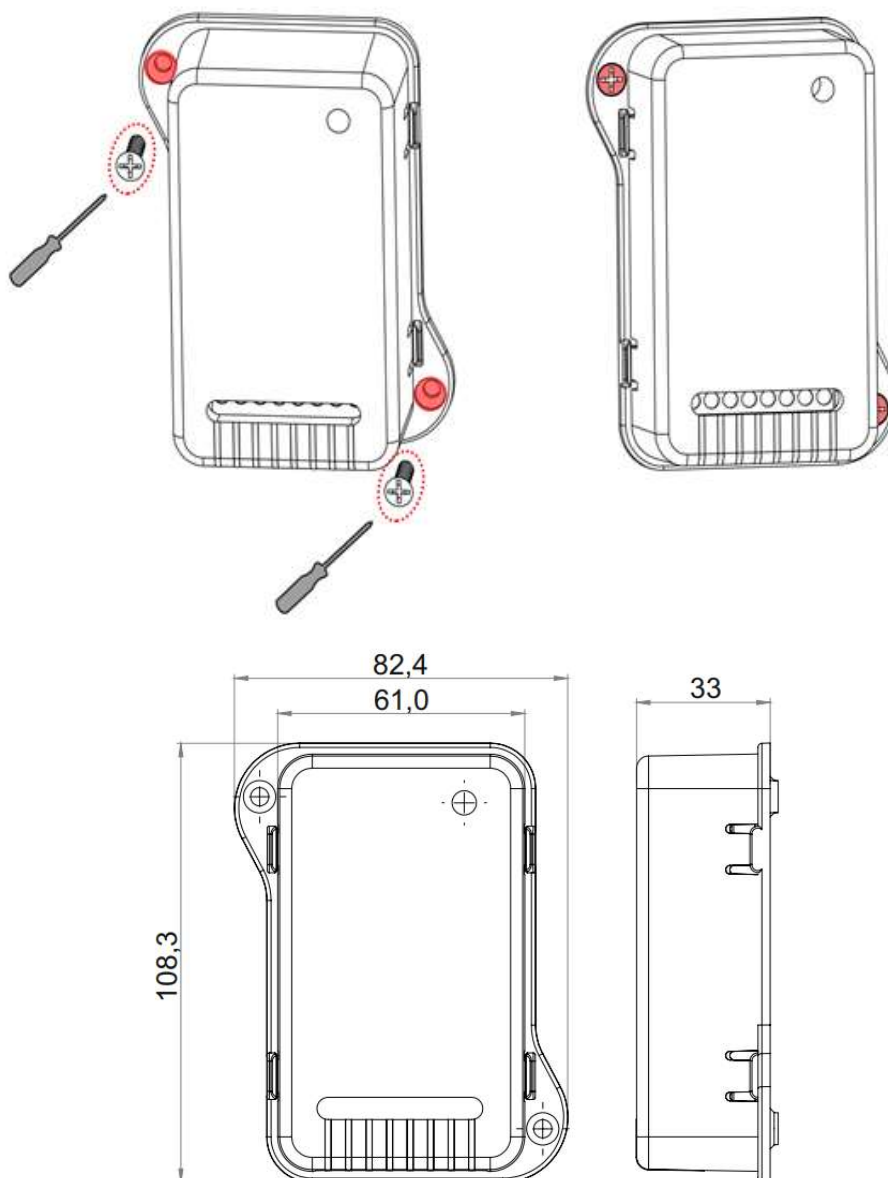


Before supplying power to the N (neutral) and F (phase) terminals shown in the wiring diagram, install a 5A fuse on the phase line.



Use a 3x1.5 mm² cable to power the RPA control board.

7. RPA – INSTALLATION





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