

TENPA

Roller Shutter Motor Control Board



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Before using your device, be sure to read the user manual. Carefully follow the steps described in the installation, electrical connection, and initial start-up sections, in order. After this stage, the product owner/user must keep this user manual in a known and accessible location for the entire service life of the product.

- Store the product in a dry environment. Otherwise, the product may malfunction.
- For products powered by a battery, the battery is not covered by the warranty. Likewise, faults 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 work may only be carried out by Kontal Elektronik technical service. The product must not be serviced or modified by any other party.
- The operating voltage of each product is stated on its label. Do not power the product from any source other than this voltage value.



- ✓ Using the product in a manner that does not comply with the items listed 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 to highlight important points in the following sections.



- ✓ Do not touch the product's power supply terminals with bare hands.
- This symbol will be used for warnings related to voltage 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 the product must not be treated as normal household waste. Instead, it must be handed over to the applicable collection points for the recycling of electronic equipment. Incorrect disposal of the product may have negative consequences for the environment and human health.



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- Make sure the system is properly grounded so that the product can operate safely.

1.DESRIPTION

TENPA is a control unit designed to safely and conveniently control 220V AC tubular and roller shutter motor systems. **ROLAN series remote controls** provide wireless control.

1.1 Box Contents

1x TENPA Roller Shutter Motor Control Board	1x 17cm Internal Wire Antenna 1x TENPA User Manual
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**For custom orders, the box contents may vary depending on the project or customer request.*

2.TECHNICAL SPECIFICATIONS

Model	TENPA
Product Code	K002-01
Operating Voltage	220V AC
Operating Current	8mA @ 220V AC
Operating Frequency	433.92MHz
Operating Temperature	-20 °C +55 °C
Contact Type	220V AC
Contact Capacity	250V AC 10A
Contact Activation Time	120sec
Remote Control Capacity	40
Weight	105
Dimensions (Width X Length X Height)	57 x 85 x 24mm

3.TENPA – REMOTE CONTROL PAIRING



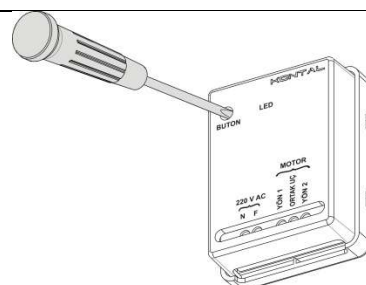
To perform this operation, ROLAN series remote controls must be programmed using the LCD CODDER device!

- **Step 1:** Make the product's power connection and switch on its power.
- **Step 2:** When power is first applied to the product, the LED on the product will blink a specific number of times to give feedback about the remote control memory; these feedback signals are shown in the table below.

Blinks 1 time	Blinks 3 times
A remote control has already been paired with the product. There is at least 1 remote control stored in the product's memory.	The product's memory is empty, meaning no remote control has been paired.

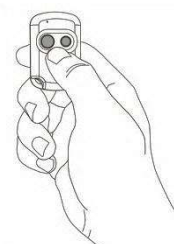
Step 3: Entering Pairing Mode

Using a screwdriver or similar tool, press the button through the button hole on the product as shown in the figure. Keep the button pressed until the LED on the product turns solid on.



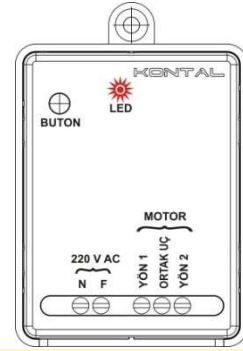
Step 4: Pairing the Remote Control

When the LED on the product turns solid on, release the button and press and release the relevant button on the remote control(s) you want to pair.



Step 5: Completing the Pairing Process

For every successful pairing, the LED on the product will blink quickly 2/3 times to indicate this. The product stays in pairing mode for 5sec; if no pairing operation is performed within 5sec, the product returns to normal operating mode. Up to **40 ROLAN** series remote controls can be paired with the product.



Channel Matching Requirement

When pairing a new remote control, the same button/channel used on the old remote control (the first one paired) must be selected.

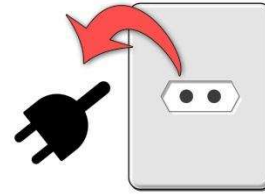


- Example: If you paired the old remote control using button 1, you must also pair the new remote control by pressing and releasing button 1. If a different button is used, the system will not save the new remote control.

4.TENPA – DELETING A REMOTE CONTROL

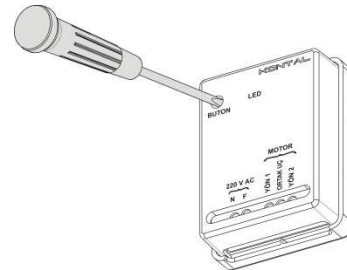
Step 1: Switching Off the Product's Power

Switch off the product's power.



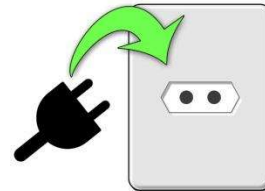
Step 2: Pressing the Button

Using a screwdriver or similar tool, press the button through the button hole on the product as shown in the figure, and keep it pressed until the final step.



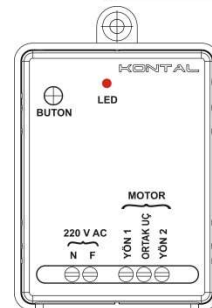
Step 3: Switching On the Product's Power

Switch on the product's power. Keep holding the button pressed.



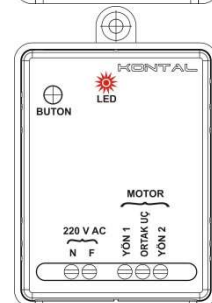
Step 4: Entering Deletion Mode

The LED on the product will turn solid on. Keep holding the button pressed.

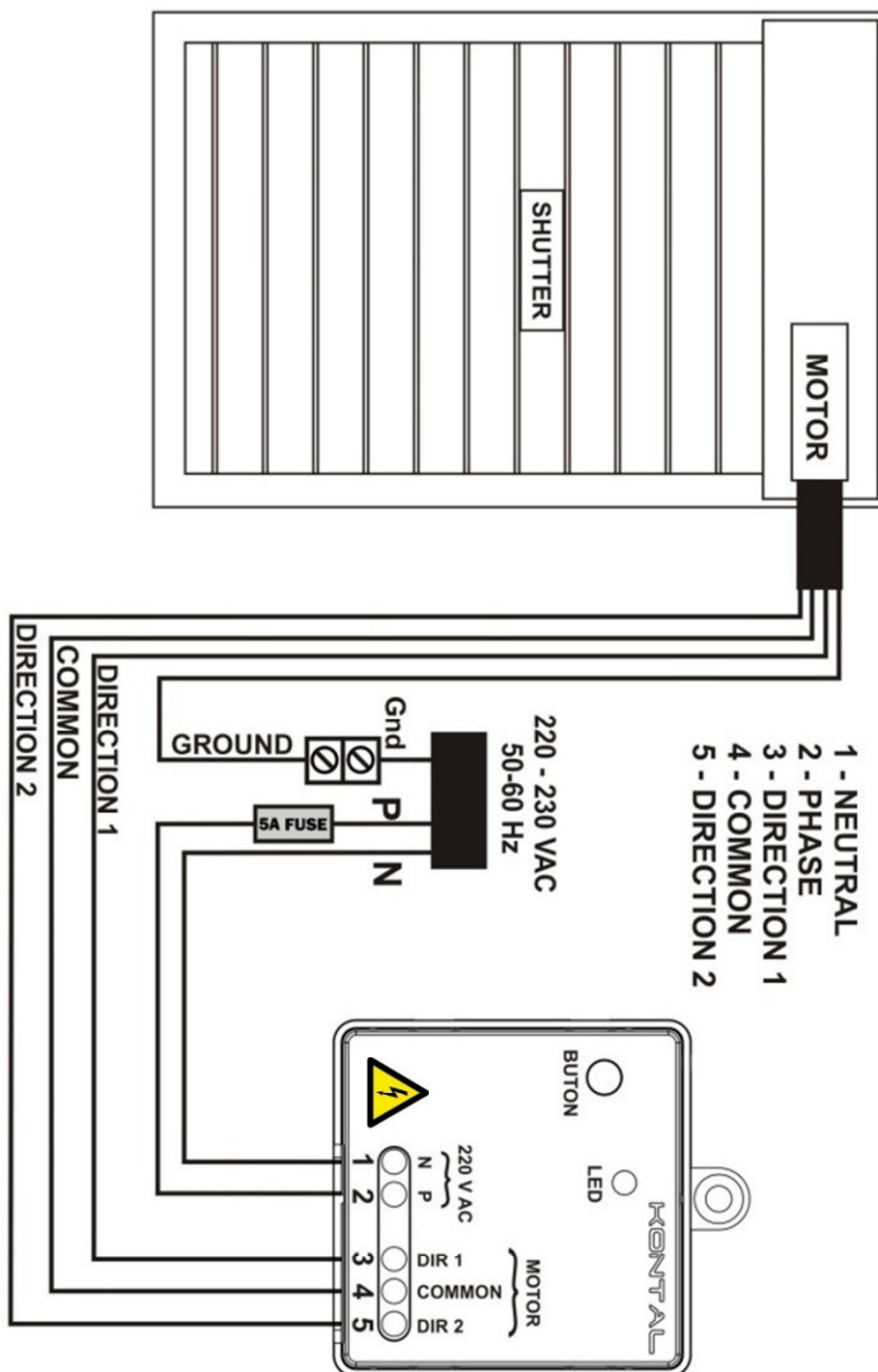


Step 5: Completing the Deletion Process

When the LED on the product starts blinking quickly, release the button on the product. When the LED turns off, the deletion process has been completed successfully.



5.TENPA – WIRING DIAGRAM



Always switch off the power to the device before making electrical connections. Otherwise, electric shock or device malfunction may occur.



After the product's power connections have been made, never touch the connection points!

6.TENPA – INSTALLATION

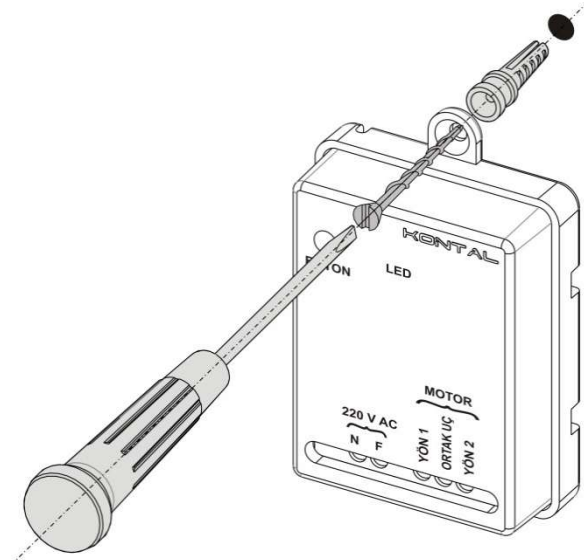


Figure 6.1 Mounting TENPA on a flat surface

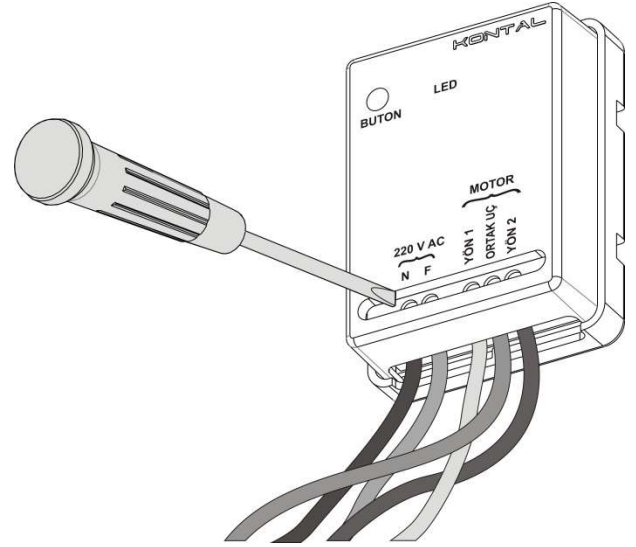


Figure 6.2 Making the TENPA cable connections

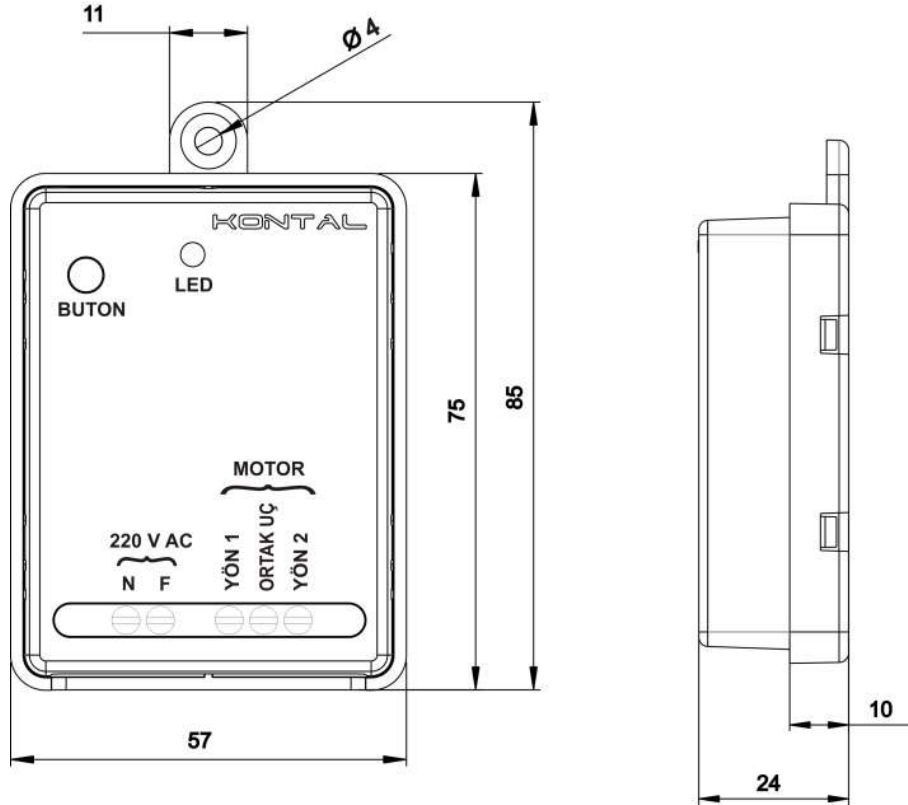


Figure 6.3 TENPA dimensions (unit: mm)

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