

MKA

ROLAN Remote Receiver Mini



KONTAL

CE



Read this user manual carefully before you start using your device. Follow the steps described in the installation, electrical connection and initial start-up sections one by one. After this stage, the product owner/user must keep this user manual in a known and easily accessible place throughout the service life of the product.

- Keep the product in a dry environment. Otherwise, the product may malfunction.
- In battery- or accumulator-powered products, the battery and accumulator are not covered by the warranty. Likewise, failures caused by battery or accumulator discharge or leakage in products past their shelf life are not covered.
- All service and repair operations may only be carried out by the Kontal Elektronik technical service. No other person may perform any intervention on the product.
- The operating voltage of each product is indicated 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 to the structure it is installed in. Kontal Elektronik San. ve Tic. Ltd. Şti. accepts no liability in such cases caused by the user.
- ✓ This symbol is used to indicate important points in the following sections.



- ✓ Do not touch the power supply terminals of the product with bare hands.
- ✓ This symbol is used to indicate voltage-related warnings in the following sections.



- ✓ This symbol on the label indicates that the supply voltage of the product 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 a designated collection point for the recycling of electronic equipment. Improper disposal or destruction of the product may harm the environment and human health.



- ✓ This document and its related revision are the responsibility and legal property of KONTAL ELEKTRONİK SAN. VE TİC. LTD. ŞTİ. Unauthorized modification or alteration is prohibited.



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

1.DESRIPTION

MKA is a remote control receiver that operates with ROLAN series remote controls and provides a dry contact NO (Normally Open) relay output. It can store a total of 500 different remote controls in its memory. Thanks to its automatic learning feature, new remote controls are learned easily, without any software or complex programming. Designed for use in garage doors, barrier systems, lighting and similar automation applications, MKA offers a reliable, flexible and expandable control solution with its user-friendly design and quick installation.

1.1 Box Contents

1x MKA - ROLAN Remote Receiver Mini	1x MKA User Manual 1x Internal Wire Antenna (17cm)
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**For special orders, the box contents may vary depending on the project or customer request.*

2.TECHNICAL SPECIFICATIONS

Model	MKA
Product Code	K031-01
Operating Voltage	12/24 V DC
Operating Current	48mA @ 24V DC
Operating Frequency	433.92MHz
Operating Mode	Pulse / Toggle
Number of Channels	1
Contact Type	Dry Contact (NO)
Contact Rating	250V AC 10A (Max.)
Remote Control Capacity	500
Weight	28g
Dimensions (W x H x D)	27.6 x 67.6 x 22mm

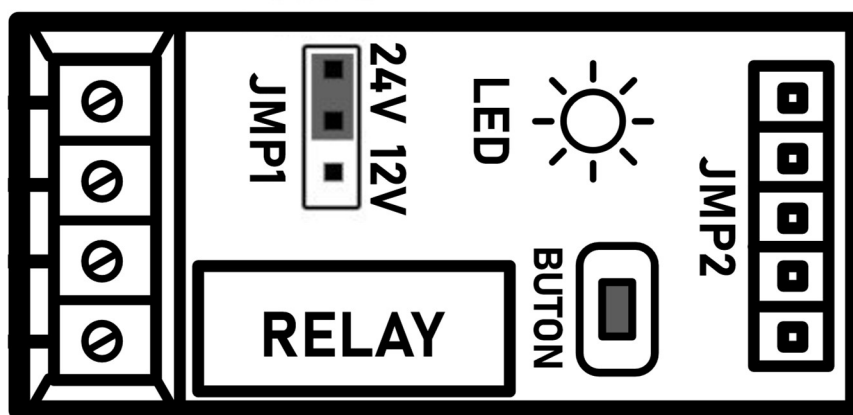
3. MKA – USER SETTING COMPONENTS

JMP1 : Use this component to set the operating voltage of your product.

JMP2 : Use this component to set the operating mode of your product and to enable/disable the remote learning feature.

BUTTON : Use this component to learn and delete remote controls on your product.

4.MKA – CONTROL BOARD SETUP AND START-UP



- a. Set the operating voltage of the product with JMP1;



MKA **24V** Voltage Jumper Selection



MKA **12V** Voltage Jumper Selection



Do not power the product with any voltage other than the selected operating voltage. Otherwise, the device may be damaged!



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



For the device to operate correctly and stably, it is recommended to use a power supply with an output power of at least 1.2 W on the supply line.

- b. Set the operating mode of the product with JMP2;

OPERATING MODE <u>PULSE</u>	OPERATING MODE <u>TOGGLE</u>
JMP2	JMP2

5. MKA – LEARNING REMOTE CONTROLS

1. Remote Control Programming:

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

2. Powering the Board:

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

3. Start-up Indication:

When the board is powered, the LED on the board turns on to give a visual indication:

- **3 short blinks:** No remote control has been learned before.
- **1 short blink:** A remote control has been learned before.

4. Remote Control Learning and Deleting Operations:

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

• Learning a New Remote Control:

Press and hold the button for approximately **1–2 seconds**, then release it.

The board will enter learning mode and the LED will stay on continuously for approximately **6–7 seconds**. During this time, press the relevant button of the remote control you want to learn. If the remote control is learned successfully, the LED **blinks 3–4 times briefly and rapidly**.

If no remote control is learned, learning mode ends and the audible indication stops.

• If the First Remote Control Is Being Learned:

If a remote control is being learned to the receiver board for the **first time**, the **channel** of the learned button is set as the operating channel of the system. All remote controls to be learned afterwards must have the **same channel** as this channel. In other words, only remote controls with the **same channel** can be learned to a receiver board.

5. Channel and Relay Mapping:

On 2- and 4-channel receivers, the channel of the learned remote control controls the **1st relay**. The following channels trigger the other relays in order.

For example:

- Remote control **button 1** → **relay 1**
- Remote control **button 2** → **relay 2**
- Remote control **button 3** → **relay 3**
- Remote control **button 4** → **relay 4**

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

5.1 Learning Remote Controls with Remote Learning Mode



To perform this operation, the remote learning feature of JMP2 must be enabled as shown in the image below;



JMP2

This allows you to add new remote controls to the system via an existing remote control without opening the board cover.



To perform this operation, at least 1 ROLAN series remote control must have been learned to the product beforehand.

- **Step 1 :** Press and hold button 1 of a ROLAN series remote control that has previously been learned to the product for 15 seconds. Release it when the LED on the product turns on steadily after 15 seconds.
- **Step 2 :** After 15 seconds, press and release the relevant channels of the remote control(s) you want to learn. For each successfully learned remote control, the LED on the product blinks rapidly 2/3 times to confirm. The product stays in learning mode for 10 seconds; if no learning operation is performed within 10 seconds, the product returns to normal operating mode. A maximum of 500 ROLAN series remote controls can be learned to the product.

6.MKA – DELETING REMOTE CONTROLS

1. Disconnect the Power:

Disconnect the power supply of the receiver board.

2. Press the Button:

While the board is unpowered, press the **learning button** on the receiver board and **do not lift your finger off the button**.

3. Apply Power:

While your finger is still on the button, apply power to the receiver board. When the board turns on, the **LED will stay “on” steadily**.

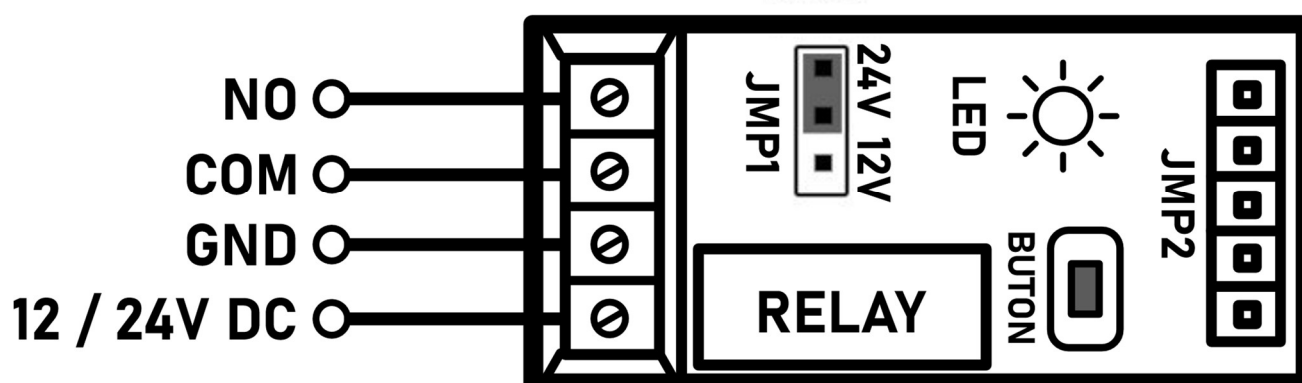
4. Completing the Deletion:

Keep holding the button **until the LED turns off**. When the LED turns off, all remote controls previously learned to the receiver board will have been **completely deleted from the memory of the control board**.

7.MKA – JUMPER SETTINGS

Operating Mode : PULSE Remote Learning : DISABLED	Operating Mode : PULSE Remote Learning : ENABLED
 JMP2	 JMP2
Operating Mode : TOGGLE Remote Learning : DISABLED	Operating Mode : TOGGLE Remote Learning : ENABLED
 JMP2	 JMP2

8.MKA – WIRING DIAGRAM



Do not power the product with any voltage other than the selected operating voltage. Otherwise, the device may be damaged!

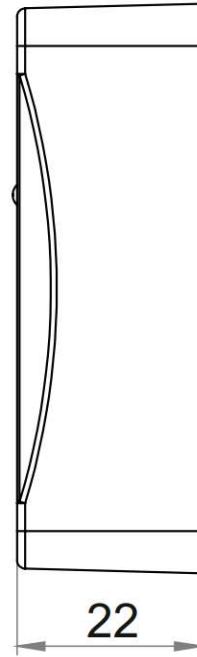
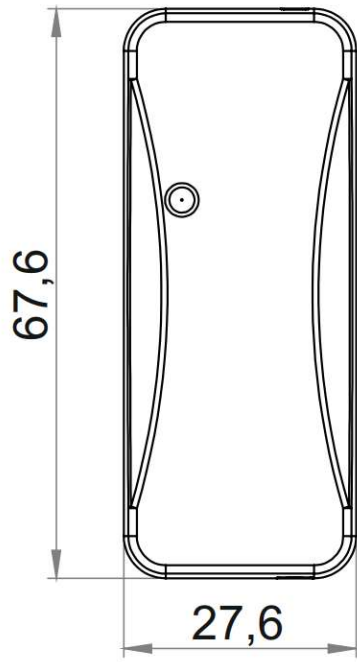
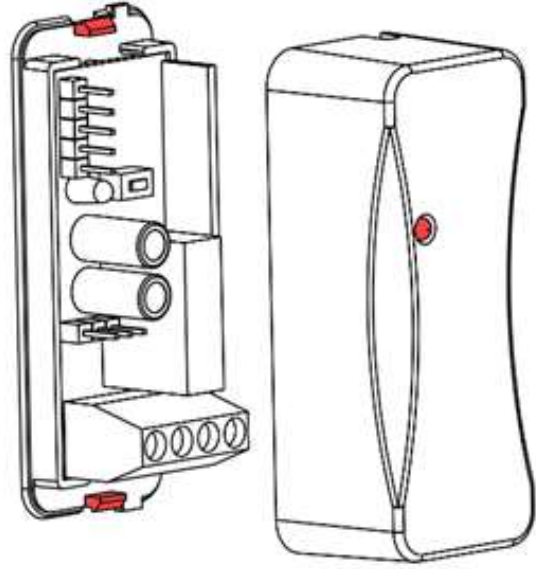
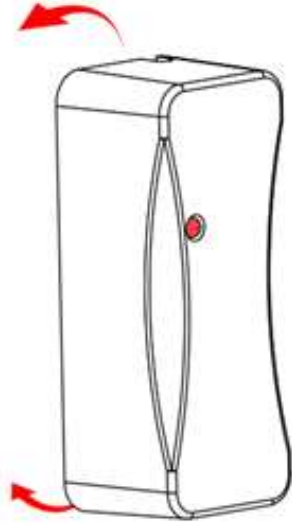


Never touch the connection terminals after the power connections of the product have been made!



For the device to operate correctly and stably, it is recommended to use a power supply with an output power of at least 1.2 W on the supply line.

9.MKA – MOUNTING



MKA Dimensions (Unit: mm)

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