

MKA2

EVS Series Remote Receiver Mini



KONTAL

CE



Be sure to read the user manual before you start using your device. Pay attention to the installation, electrical connection and initial startup sections and carry out the specified items step by step. After this stage, the product owner/user must keep this user manual in a known and visible place throughout the service life of the product.

- Keep the product in a dry environment. Otherwise, the product may malfunction.
- In battery-powered products, the battery is not covered by the warranty. Likewise, in products that have exceeded their shelf life, failures caused by battery discharge or leakage are not covered by the warranty.
- All service and repair operations may only be carried out by the Kontal Elektronik technical service. No intervention on the product may be made by any other person.
- The operating voltage of each product is specified on its label. Do not power the product from a source with a voltage other than this 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 in which it is installed. Kontal Elektronik San. ve Tic. Ltd. Şti. accepts no liability for such situations caused by the user.
- ✓ This symbol will be used for important points in the following sections.



- ✓ Do not touch the power supply terminals of the product with bare hands.
- ✓ This symbol will be used for 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 household waste. Instead, it must be handed over to a designated collection point for the recycling of electronic equipment. Improper disposal may have negative consequences for the environment and human health.



- ✓ The responsibility for and legal ownership of this document and its related revision belong to KONTAL ELEKTRONİK SAN. VE TİC. LTD. ŞTİ. Unauthorized alteration or modification of this document is prohibited.



- ✓ To ensure the proper operation of the product, make sure that the system is grounded.

1. DESCRIPTION

MKA2 is a remote control receiver that operates with EVS 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, and no software or complex programming is required. Designed for use in garage doors, barrier systems, lighting and similar automation applications, MKA2 offers a reliable, flexible and expandable control solution with its user-friendly design and quick installation.

1.1 Package Contents

1x MKA2 - EVS Remote Receiver Mini	1x MKA2 User Manual 1x Internal Wire Antenna (17cm)
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**For special orders, the package contents may vary depending on the project or customer request.*

2. TECHNICAL SPECIFICATIONS

Model	MKA2
Product Code	K193-01
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	40g
Dimensions (Width x Height x Depth)	43.06 x 57.73 x 25.13mm

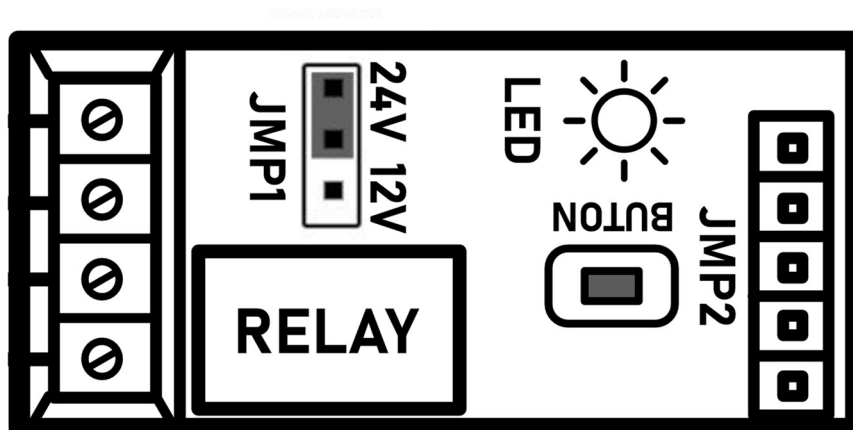
3. MKA2 – USER SETTING COMPONENTS

JMP1 : This component allows you to set the operating voltage of your product.

JMP2 : This component allows you to set the operating mode of your product.

BUTTON : This component is used to learn and delete remote controls on your product.

4. MKA2 – CONTROL BOARD SETUP AND INITIAL STARTUP



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



MKA2 **24V** Voltage Jumper Selection



MKA2 **12V** Voltage Jumper Selection



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



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



For correct and stable operation of the device, a power supply with an output power of at least 1.2 W is recommended on the supply line.

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

OPERATING MODE PULSE	OPERATING MODE TOGGLE
JMP2	JMP2

5. MKA2 – LEARNING REMOTE CONTROLS

- **Step 1 :** Make the power connection of the product and power on the product.
- **Step 2 :** When the product is first powered on, the LED on the product will flash a certain number of times to give feedback about the remote control memory of the product. These feedback signals are shown in the table.

Flashes 1 Time	Flashes 3 Times
A remote control was learned before. There is at least 1 remote control in memory.	The product memory is empty, i.e. no remote control has been learned.

- **Step 3 :** Press and hold the button on the product until the LED on the product turns on steadily.
- **Step 4 :** After the LED on the product turns on steadily, release the button and press/release the relevant channels of the remote control(s) you want to learn. For each successfully learned remote control, the LED on the product will flash rapidly 2/3 times to indicate this. The product remains 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 EVS series remote controls can be learned by the product.

Channel Matching Requirement

When learning a new remote control, the same button/channel used on the old remote control must be selected.



- **Example: If the old remote control was learned with button 1, learn the new one with button 1 too. If a different button is used, the system will not register the new remote control.**

- **Step 5 :** The channel-relay matching of the remote controls you have learned is shown in the table below;

Relay control of the remote controls learned by 2-channel receivers (EKA2)	
Learned Button	Relay Operation
1. Button learned	1. Button controls Relay 1, 2. Button controls Relay 2.
2. Button learned	2. Button controls Relay 1, 3. Button controls Relay 2.
3. Button learned	3. Button only operates Relay 1. In this case, you cannot control Relay 2.

5.1 Learning Remote Controls with Remote Learning Mode

Allows you to add a new remote control to the system via an existing remote control without opening the board cover.



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

- **Step 1 :** Press and hold buttons 1 and 2 of an EVS series remote control previously learned by the product simultaneously for 3 seconds. Release them when the LED on the product turns on steadily after 3 seconds.
- **Step 2 :** After 3 seconds, press/release the relevant channels of the remote control(s) you want to learn. For each successfully learned remote control, the LED on the product will flash rapidly 2/3 times to indicate this. The product remains 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 250 EVS series remote controls can be learned by the product.

6.MKA2 – DELETING REMOTE CONTROLS

1. Disconnect the Power:

Disconnect the power connection of the receiver board.

2. Press the Button:

While the board is de-energized, press the **learning button** on the receiver board and **do not lift your finger from the button**.

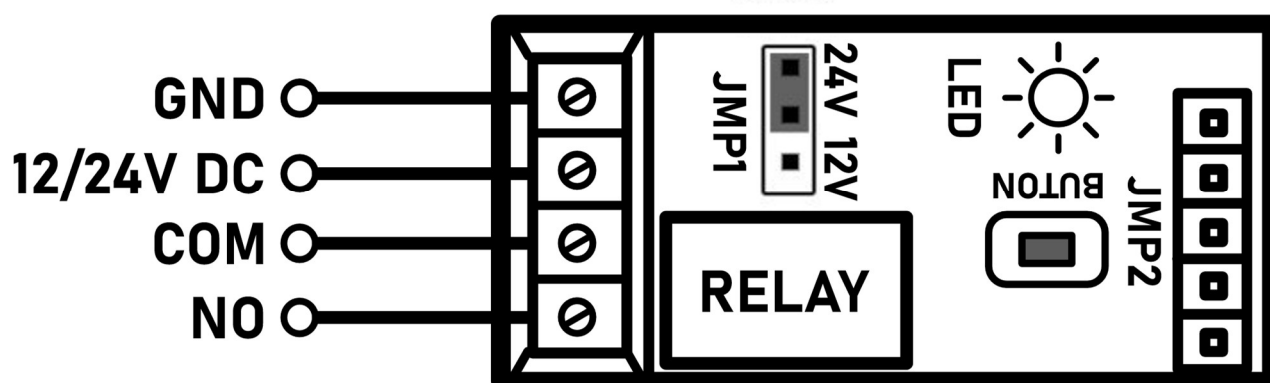
3. Apply Power:

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

4. Completing the Deletion:

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

7.MKA2 – WIRING DIAGRAM



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

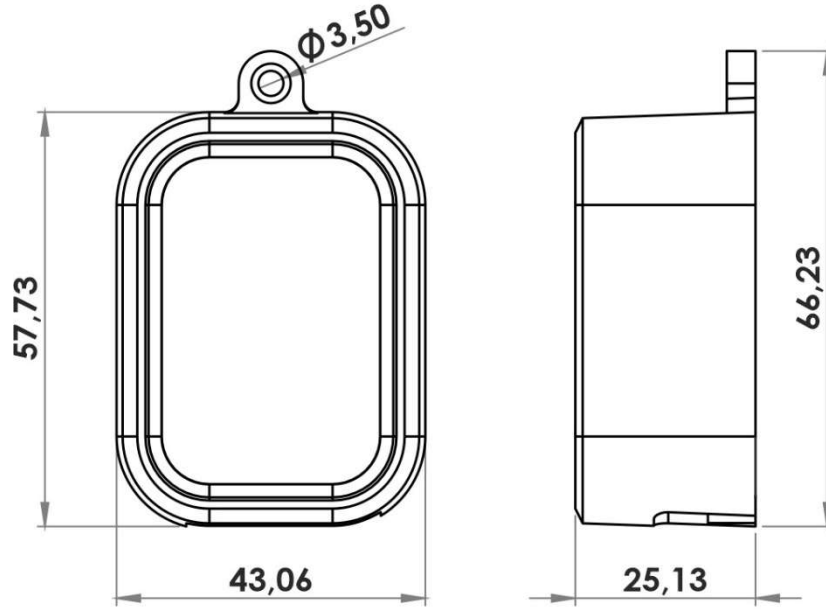


Never touch the connection terminals after the power connections of the product have been made!



For correct and stable operation of the device, a power supply with an output power of at least 1.2 W is recommended on the supply line.

8.MKA2 – MOUNTING



Ölçü Birimi: mm
MKA2 Dimensions (Unit mm)

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