



KONTAL MKA Channel Rolling Tiny Receiver User Manual

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KONTAL MKA Channel Rolling Tiny Receiver




Please read the instructions carefully before you start using your device. You carefully fulfill step by step necessary specifications like installing settings, electrical connections, and first operating system configurations. After this stage, the product owner/user has to keep this manual in a known and visible place throughout the product's life.

- Use the product only indoors and in dry environments.
- Keep the product in a dry place.
- All service and repairs can only be done by Kontal Elektronik technical service. The product should not be intervened with by any other persons.
- Each product's working voltage is described on its label. Do not supply the product with a different source outside this voltage range.



If the product is used in violation of the above-mentioned items, it may cause fire, personal injury, or damage to the product or the structure in which the product is installed. Kontal Elektronik Ltd does not accept any responsibility for such situations caused by the user ü This exclamation mark will be used to highlight important points.



- Do not touch the supply input of the product with bare hands.
- This electric mark will be used to highlight electricity hazards.
-  This sign on the label indicates that the supply voltage of the product is DC.



- This symbol on the product or its box indicates that this product cannot be treated as normal household waste. Instead, the product should be delivered to designated collection points for the recycling of electronic equipment.
- Incorrect disposal of the product can have negative consequences for the environment and human health.



- The rights and responsibilities of this document and its revisions belong to Kontal Elektronik Ltd.
- It is a crime and prohibited to change it without permission.

DEFINITION

MKA is a mini receiver board compatible with the Rolan series remote controls. The board has a single relay output and offers two operating voltage options: 12V and 24V. It is designed for remote control operation of doors equipped with electronic lock mechanisms, but it can also be used for triggering applications in low-power environments.

TECHNICAL FEATURES

Model	:	MKA
Product Code	:	K031-02
Working Voltage	:	12 / 24V DC
Working Current	:	48mA @24V DC
Working Frequency	:	433,92MHz
Output Type	:	Pulse /Toggle
Contact Type	:	12 / 24V DC - NO
Max. Contact Power	:	250V 5A
Auto Learn	:	✓
Remote Control Capacity	:	500
Weight	:	28gr
Dimensions (Width x Length x Depth)	:	27 x 67,5 x 22mm

Select Working Voltage

There is a jumper (J1) on board to select the working supply. If the a and b pins of J1 are short-circuited, the supply voltage is DC 12V. If the b and c pins of J1 are short-circuited, the supply voltage is DC 24V. When the system is powered on, it provides no indication (e.g., no LED illumination, no relay activation, etc.).



Figure 1 - 12V Option

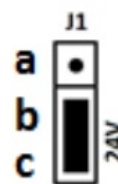


Figure 2 - 24V Option

Registering Remote Controls

1. Connect the supply voltage to the MKA board.
2. Press the button on the MKA card until the LED lights up. After the LED lights up, lift your finger off the button and press the first channel of the remote control you want to teach.
3. If the receiver has learned the remote control, the LED on the receiver board will flash 3 times.

IF A REMOTE CONTROL HAS NOT BEEN PREVIOUSLY TAUGHT TO THE CARD, WHEN THE BUTTON IS PRESSED, THE LED WILL FLASH ON AND OFF TWICE AND WILL BECOME ACTIVE. IF THERE IS A REMOTE CONTROL DEFINED IN THE MEMORY BEFORE, THE LED WILL DIRECTLY BECOME ACTIVE.

Auto Learning Mode

Using Remote Control

- To use this feature, MKA must have learned at least one remote before.
- Connect the supply voltage to the MKA board.
- Press the first and second buttons of the remote control. You have already taught the system for about 15 seconds.
- MKA will enter learning mode, and the LED will light up.
- While the system is in learning mode, press the first channel of the remote control you want to teach.
- If the receiver learns the remote control, the LED will turn on and off 3 times.

Using Jumper

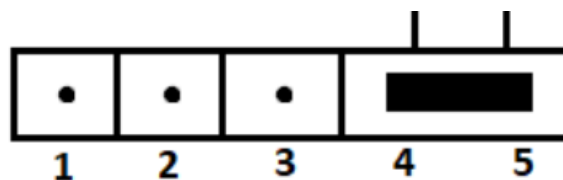


Figure 3 – Auto Learn Mode

- The receiver board is activated by short-circuiting pins 4 and 5 of the J2 jumper.
- This allows new remotes to be added to the system without interacting directly with the receiver board.
- When a new Rolan series remote, programmed with the same receiver code using your LCDTheThee DER devic is pressed for the first time on the appropriate button, and the receiver board learns the remote.
- On subsequent presses, the receiver board will begin to operate. Figure 3 – Auto Learn Mode

Deleting Remotes from Memory

1. Disconnect the power supply to the card.
2. Press and hold the button on the card while the power is off, and then reconnect the card to power.
3. The LED will remain on for about 3-4 seconds. When the LED is completely off, take your finger off the button.
4. At the end of these steps, all remote controls registered in the receiver memory will be deleted.

Selecting Working Mode

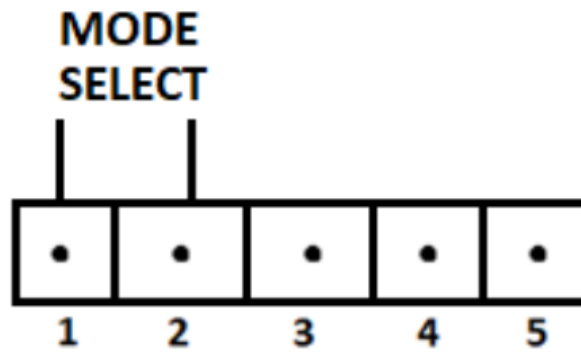


Figure 4 – Pulse Mode Select

Pulse Mode: This is the default mode of operation. In this mode, when the user presses the first channel of the Rolan series remote control, which he had previously taught in the system, the relay is triggered for 1 second and then becomes passive. If pins 1 and 2 are open-circuited, the system operates in PULSE mode.

Toggle Mode: In this mode, when the first channel of the Rolan series remote control that has been taught to the system is pressed, the relay remains triggered. To deactivate the relay, the first pressed button must be pressed again. If pins 1 and 2 are short-circuited, the system operates in TOGGLE mode.

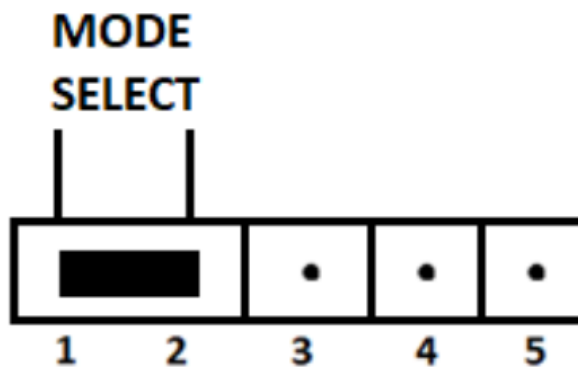


Figure 5 – Toggle Mode Select

CONNECTION SCHEMA

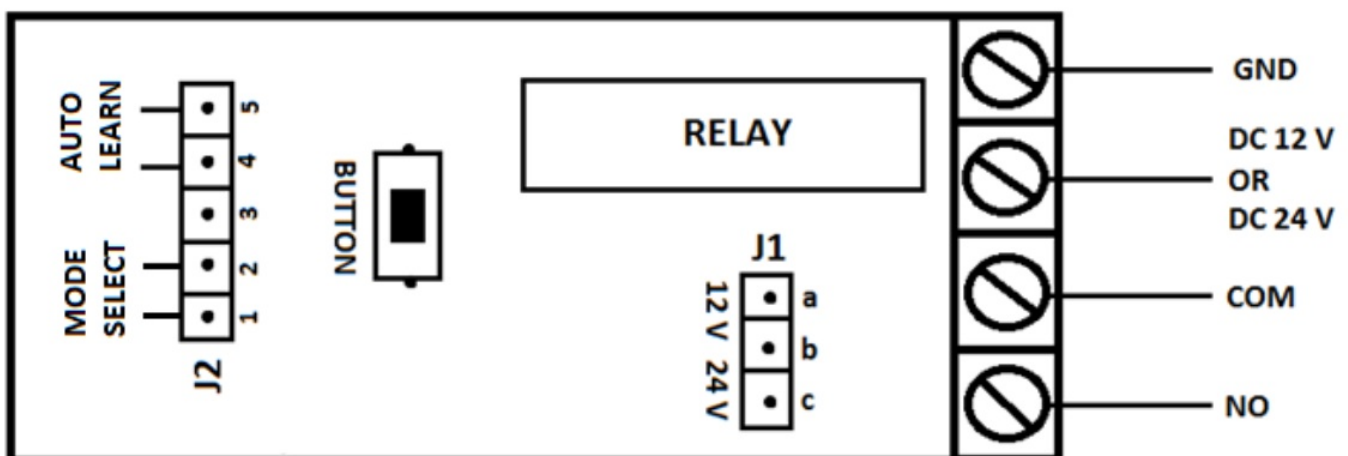
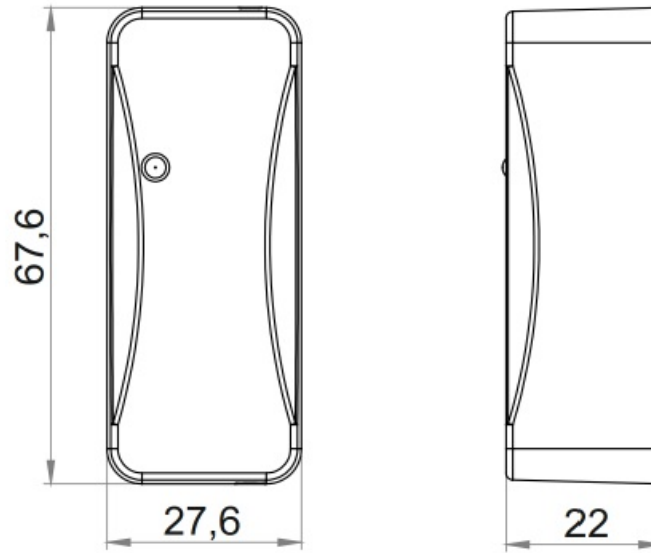
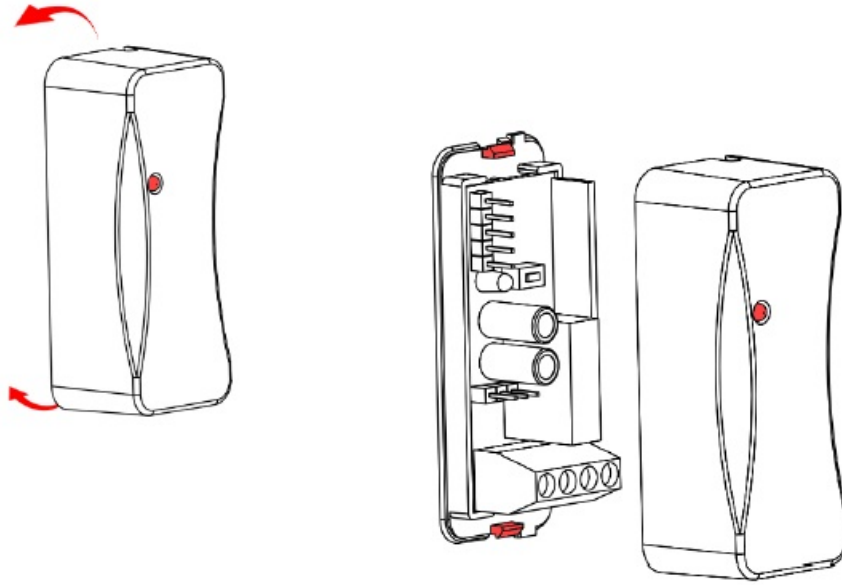


Figure 6 - MKA Top View

INSTALLATION



Please install the device in an easy-to-access location for easy separation during installation.



It is recommended to use a maximum cable length of 40 cm when connecting the unit.

Manufacturer/Authorized Service Kortal Elektronik San. Ve Tic. Ltd. Şti.

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Documents / Resources

<div>MKA – TINY RECEIVER</div> <div>MKA</div> <div>User Manual V2.1</div> <div></div> <div></div>	<div>KONTAL MKA Channel Rolling Tiny Receiver [pdf] User Manual</div> <div>MKA Channel Rolling Tiny Receiver, MKA, Channel Rolling Tiny Receiver, Rolling Tiny Receiver, Tiny Receiver</div>
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References

- [User Manual](#)

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