

MKA2 – TINY RECEIVER

MKA2

User Manual V1.0





Please read the instructions carefully before you start using your device. You fulfil step by step necessary specifications like installing settings, electrical connections and first operate system configurations carefully. After this stage, product owner/user have to keep this manual on known and visible place throughout product 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 by any other persons.
- Each product working voltage is described on own 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

- ✓ This exclamation mark will be used to highlight important points.



Do not touch supply input of the product with bare hands.

- ✓ This electric mark will be used to highlight electricity hazard.



- ✓ 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.



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1.DEFINITION

MKA2 is an electronic mini receiver device with NO/NC dry contact output, compatible with EVS series remote controls.

2.TECHNICAL FEATURES

TECNICAL FEATURES

Model	: MKA2
Product Code	: K193-01
Working Voltage	: 12 / 24V DC
Working Current	: 12mA @24V DC
Working Frequency	: 433,92MHz
Output Type	: Pulse /Toggle
Contact Type	: 12 / 24V DC – NC/NO
Max. Contact Power	: 250V 10A
Remote Control Capacity	: 500
Weight	: 40gr
Dimensions	: 43,06 x 57,73 x 25,13mm

2.1. Selecting the Operating Voltage

There is a jumper on the receiver card to select the supply voltage. By short-circuiting the a and b pins on this jumper, the system will operate with DC 12V. By short-circuiting the b and c pins, it will operate with DC 24V.



Figure 1 - 12V Option

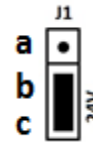


Figure 2 - 24V Option



System will not give any reactions, when connect supply voltage (LED ON, RELAY ON, etc.).

2.2. Registering Remotes

1. Connect the supply voltage to the MKA2 board.
2. Press the button on MKA2 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.

2.3. Auto Learning Mode

- To use this feature, MKA2 must have learned at least one remote before.
- Connect the supply voltage to the MKA2 board.
- Press the first and second buttons of the remote control you have already taught the system for about 3 seconds.
- MKA2 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.

2.4. Deleting Remote Controls from MKA2

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

2.5. Selecting Working Mode

- **Pulse Mode:** In this mode, when the first channel of the EVS series remote taught to the system is pressed, the relay is triggered and after 0.5 seconds the relay becomes passive. If pins 1 and 2 are open circuit, the system operates in PULSE mode.

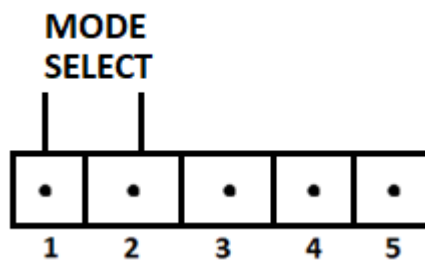


Figure 3 – Pulse Mode Selection

- **Toggle Mode:** In this mode, when the first channel of the EVS series remote control that has been taught to the system is pressed, the relay remains triggered. In order 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.

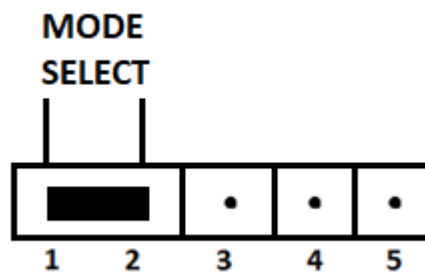


Figure 4 – Toggle Mode Select

3.CONNECTION SCHEMA

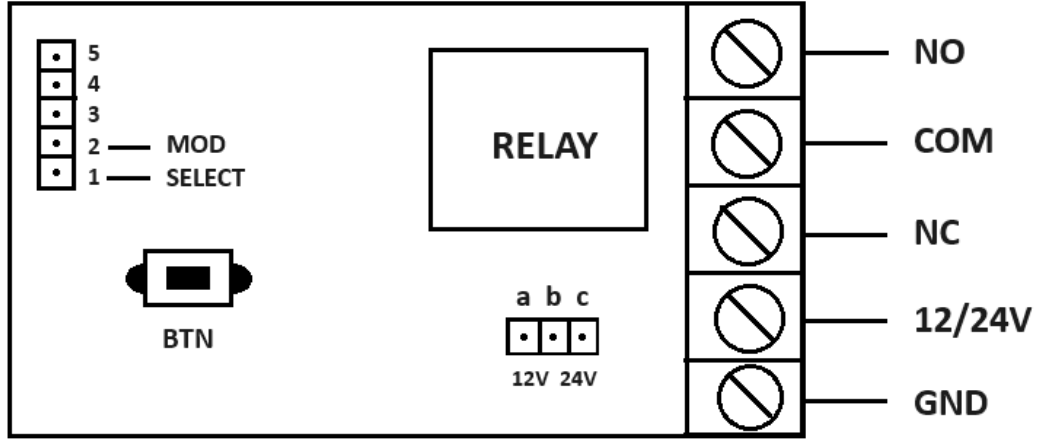
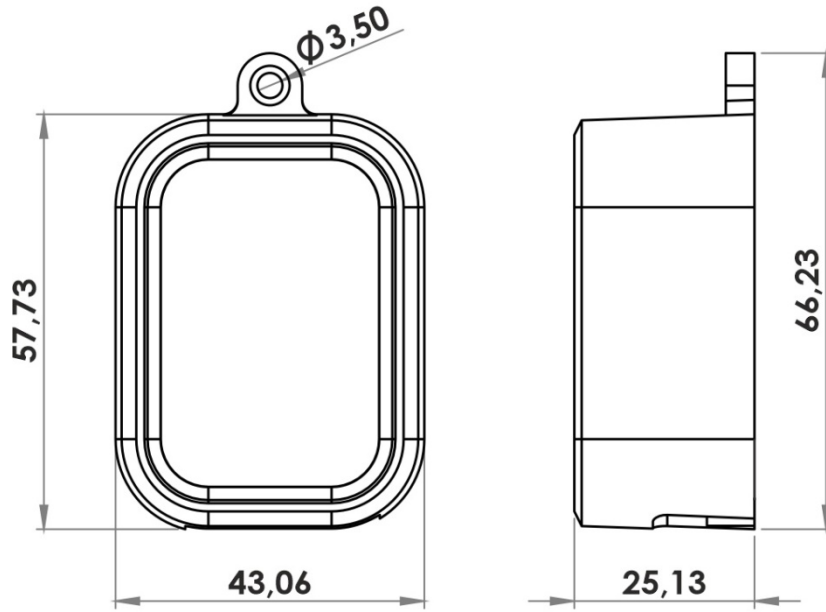


Figure 5 – MKA2 Top View

4.DIMENSIONS



Unit is mm



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.