



KONTAL EKA2 2 Channel Rolling Code Receiver User Manual

[Home](#) » [KONTAL](#) » KONTAL EKA2 2 Channel Rolling Code Receiver User Manual 



EKA / EKA2 RECEIVER UNITS FOR EVS SERIES REMOTES User Manuel V1.2



Contents

- 1 EKA2 2 Channel Rolling Code Receiver
- 2 DEFINITION
- 3 TECHNICAL FEATURES
- 4 CONNECTION SCHEMA
- 5 INSTALLATION
- 6 Documents / Resources
 - 6.1 References

EKA2 2 Channel Rolling Code Receiver



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.



Legal rights and responsibilities of this document and its revisions belong to Kontal Elektronik Ltd. It is illegal and prohibited to change it without permission.

DEFINITION

The EKA and EKA2 receivers are relay output triggering devices designed to work with EVS series remotes. The EKA model includes 1 relay, while the EKA2 model includes 2 relays, allowing control of the desired device(s).

TECHNICAL FEATURES

All technical specifications, critical steps required before installation, and operation information are provided in this section.

Model	EKA	EKA2
Product Code	K168-01	K169-01
Operating Voltage	12 – 24V DC	12 – 24V DC
Operating Current	40mA @24V DC	50mA @24V DC
Operating Frequency	433.92MHz	433.92MHz
Channel Number (Relays)	1	2
Operating Mode	Pulse / Toggle	Pulse / Toggle
Contact Type	Dry Contact / NO	Dry Contact / NO
Maximum Contact Power	250V AC 10A	250V AC 10A
Auto-Learning	No	No
Remote Capacity	250	250
Weight	95gr	106gr
Dimensions	82.5 x 108.5 x 35mm	82.5 x108.5 x 35 mm

2.1. PROGRAMMING REMOTES TO THE RECEIVER

1. Powering the Receiver: To program a new remote to the receiver, first provide the appropriate supply voltage to the receiver card, making it operational.
2. Initial LED Signals: Upon powering the receiver, the LED on the card will blink a certain number of times to provide a status update:
 - 3 Blinks: Indicates that no remote has been programmed to the control card.
 - 1 Blink: Indicates that a remote has already been programmed to the control card.
3. Programming Button: The receiver card has a single button, which allows programming a new remote or erasing all previously programmed remotes. To enter the programming mode, press and hold the button for approximately 2 seconds until the LED lights up, then release it. When the receiver enters programming mode, the LED will stay on for about 10 seconds. During this time, press the desired button on the remote control to program it. When the receiver successfully learns the remote, the LED will blink once. If it fails to learn the remote, the receiver will exit programming mode, and the LED will turn off.
4. Exiting Programming Mode: Once programming is complete, you can exit programming mode by either pressing the programming button again or pressing the same channel on the most recently programmed remote. If no further actions are taken within 10 seconds, the receiver will automatically exit programming mode.
5. Programming with 2-Channel Receivers (EKA2 Model): In the EKA2 model, programming a remote to one channel will automatically assign the subsequent remote channels to the other relays. For instance, if you program the first button of a 3-channel remote, the receiver's first relay will respond to this button. The second

button will then control the second relay. If you teach the second button during programming mode, the second button will control relay 1, and the third button will control relay 2. Teaching the third button only enables control of relay 1.

Programmed Button	Relay Control System
1st Button Programmed	1st Button: Relay 1, 2nd Button: Relay 2
2nd Button Programmed	2nd Button: Relay 1, 3rd Button: Relay 2
3rd Button Programmed	3rd Button: Only Relay 1

2.2. ACTIVATING “REMOTE LEARNING” MODE FOR THE EKA CARD

This feature allows adding new remotes to the system without manual intervention on the EKA card. Follow these steps:

1. Prerequisite: The receiver must have learned at least one remote beforehand.
2. Activating Remote Learning Mode: Press and hold both the 1st and 2nd channels (buttons) of a previously learned remote simultaneously.
3. Holding Duration: Maintain this for approximately 2-3 seconds.
4. Indication of Remote Learning Mode: When the receiver enters remote learning mode, the LED on the card will light up, indicating readiness to learn a new remote.
5. Programming the New Remote: Press the desired button on the new remote that you wish to program.
6. Exiting Remote Learning Mode: To exit remote learning mode, you can;
 - Press the programming button on the receiver card.
 - If no new remote is programmed within 10 seconds of teaching the last remote, the system will automatically exit learning mode.

2.3. DELETING ALL REMOTES FROM RECEIVER MEMORY

1. Disconnect Power: Remove power from the receiver card
2. Press and Hold Button: With the receiver powered off, press and hold the programming button on the receiver card.
3. Reconnect Power: While holding the button, supply the power to the receiver. Keep holding the button for approximately 2 seconds. The LED will blink 3 times, indicating that all programmed remotes have been erased from memory.

2.4. SETTING THE OPERATING MODE

The operating modes for the relays can be set using the jumpers on the EKA receiver card.

- JP2 controls Relay 1, while JP3 controls Relay 2.
- Pulse Mode (default if jumper is not installed): Relay remains active for 0.3 seconds before deactivating.
- Toggle Mode (jumper installed): Relay remains active upon receiving a command and stays in that state until another command is received to change its state. This functionality is identical for both JP2 and JP3 jumpers.

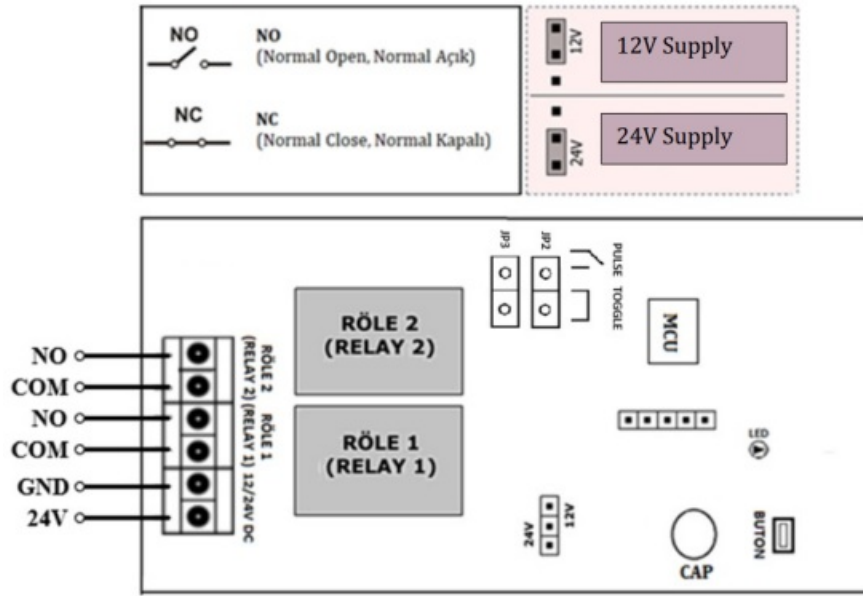


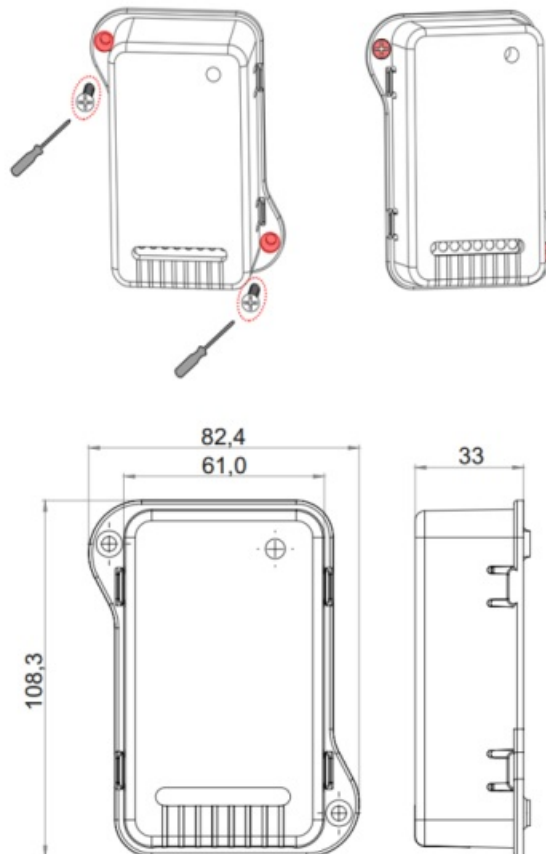




Figure 2 - EKA2 Connection Schema

	<ul style="list-style-type: none"> • Important: Ensure power is turned off before making any connections. • Avoid touching terminal points with bare hands once the system is energized.
	<ul style="list-style-type: none"> • Use 2×1.5 mm² cables to power the control card. • Follow the wiring diagrams closely and verify the supply voltage is correct. • If issues persist after proper wiring, contact technical support.

INSTALLATION



	Please mount the device in an easy-to-access location to ensure easy separation during installation.
	It is recommended to use a cable with a maximum length of 40 cm when connecting the device.



Manufacturer / Authorized Service

Kontal Elektronik San. Ve Tic. Ltd. Şti.

KONTAL ELEKTRONİK

RECEIVER OF EVS REMOTE CONTROL ■ K168-01/K169-01

Çorapçılar Sanayi Sitesi


A Blok NO: 1-2 İkitelli OSB, 34490

İSTANBUL / TURKEY

+90 212 485 6111

www.kontal.com.tr

Documents / Resources

	<p>KONTAL EKA2 2 Channel Rolling Code Receiver [pdf] User Manual</p> <p>EKA, EKA2, EKA2 2 Channel Rolling Code Receiver, EKA2 2, Channel Rolling Code Receiver, Rolling Code Receiver, Code Receiver, Receiver</p>
--	--

References

- [🌐 Captcha](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.