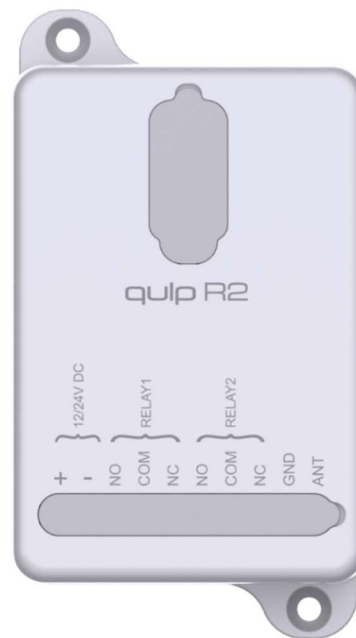


Qulp-R1 / Qulp-R2

868MHz Qulp Series

1- and 2-Channel Remote Control
Receivers



KONTAL

CE



Please make sure to read the user manual before starting to use your device. Follow the steps described in the installation, electrical connection, and first start-up sections carefully. After this stage, the product owner/user must keep this user manual in a known and accessible location for the entire service life of the product.

- Keep the product in a dry environment. Otherwise, the product may malfunction.
- For products that run on batteries or rechargeable batteries, the battery is not covered by the warranty. Likewise, faults caused by battery discharge or leakage in products that have reached the end of their shelf life are not covered by the warranty.
- All servicing and repair operations may only be carried out by Kontal Elektronik technical service. The product must not be interfered with by any other person.
- The operating voltage of each product is stated on its label. Do not power the product from a source outside 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 the structure it is installed in. Kontal Elektronik San. ve Tic. Ltd. Şti. accepts no responsibility 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 points 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 this product must not be treated as normal household waste. Instead, it must be handed over to the applicable collection points for the recycling of electronic equipment. Incorrect disposal of the product may have negative consequences for the environment and human health.



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- For the product to operate properly, make sure the system is grounded.

1.DESRIPTION

QULP R series receiver cards (QULP R1 and QULP R2) are control units that communicate with QULP series remote controls at 868 MHz and provide a dry contact output using a highly secure encryption algorithm. When the button of a paired remote control is pressed, the relevant relay is triggered and a contact signal is sent to the target system.

1.1 Box Contents

1x Qulp R1 / Qulp R2	1x 8cm Internal Wire Antenna
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**For custom orders, the box contents may vary depending on the project or customer request.*

2.TECHNICAL SPECIFICATIONS

Model	Qulp R1	Qulp R2
Product Code	K146-01	K143-01
Operating Voltage	12/24 VDC	
Operating Current	40mA @24V DC	
Operating Frequency	868,35MHz	
Operating Temperature	-20 �C +55 �C	
Number of Contacts / Contact Type	1 / Dry Contact (NO / NC)	2 / Dry Contact (NO / NC)
Contact Capacity	250V AC 10A	
Remote Control Capacity	500	
Weight	110g	115.6g
Dimensions (W X H X D)	66 x 116 x 26mm	

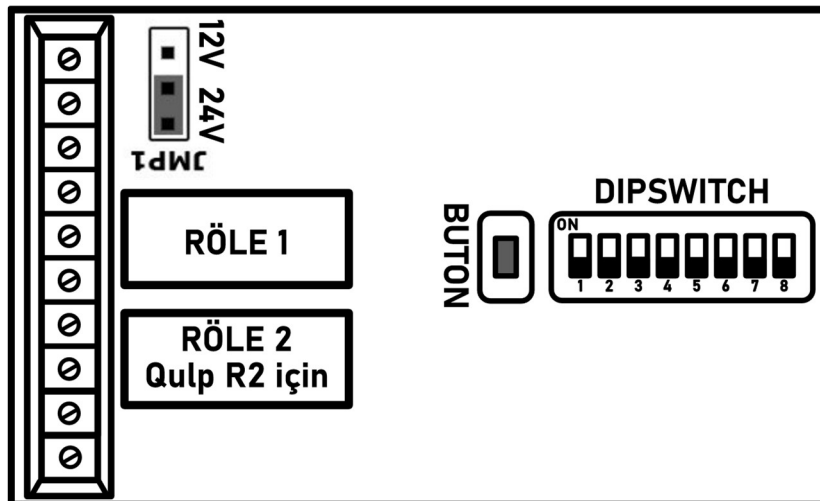
3.Qulp R – USER SETTING COMPONENTS

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

BUTTON: This component allows you to pair/delete remote controls on the product.

DIP SWITCH: This component allows you to set the operating parameters of the product.

4.Qulp – R – CONTROL CARD



5. Qulp-R – DIP SWITCH FUNCTIONS

FUNCTION	DIP NO.	DIP POSITION	FUNCTION DESCRIPTION SINGLE AND DUAL CHANNEL QULP RECEIVER (QULP R1 / QULP R2)
AUTOMATIC LEARNING	DIP No. 1	ON	Automatic learning is active . This allows new remote controls to be added to the system without accessing the receiver card.
		OFF	Automatic Learning is inactive .
OPERATING MODE AND EXTRA TIME SETTINGS OF RELAY 1	DIP No. 2	ON	Relay 1 output operates in Toggle mode. That is, when a signal is received from the remote control, the relay energizes but does not release. The relay only releases when another signal is received from the remote control.
		OFF	Relay 1 output operates in Pulse mode. That is, when a signal is received from the remote control, the relay energizes, remains energized for approximately 0.3 seconds, and then releases itself.
	DIP No. 3	ON	If Relay 1 operates in Pulse mode (with DIP switch No. 2 OFF), it adds 1 second in addition to the relay's energized time.
		OFF	Does not add any extra time to Relay 1's operation in Pulse mode.
OPERATING MODE AND EXTRA TIME SETTINGS OF RELAY 2	DIP No. 4	ON	Relay 2 output operates in Toggle mode. That is, when a signal is received from the remote control, the relay energizes but does not release. The relay only releases when another signal is received from the remote control.
		OFF	Relay 2 output operates in Pulse mode. That is, when a signal is received from the remote control, the relay energizes, remains energized for approximately 0.3 seconds, and then releases itself.
	DIP No. 5	ON	If Relay 2 operates in Pulse mode (with DIP switch No. 4 OFF), it adds 1 second in addition to the relay's energized time.
		OFF	Does not add any extra time to Relay 2's operation in Pulse mode.
CHANNEL INTERLOCK	DIP No. 6	ON	Channel interlock is active . This function prevents the other relay from energizing while any one relay is energized.
		OFF	Channel interlock is inactive .
SYNCHRONOUS OPERATION	DIP No. 7	ON	Synchronous operation mode is activated. This mode works together with DIP switch No. 8. If DIP switch No. 8 is OFF , both relays will operate simultaneously using the settings of Relay 1.
		OFF	Synchronous operation mode is inactive.
SYNCHRONOUS OPERATION CHANNEL	DIP No. 8	ON	For synchronous operation mode, the settings of Relay 2 apply, and the remote control channel driving Relay 2 controls the system. For this function to be valid, DIP switch No. 7 must be ON .
		OFF	For synchronous operation mode, the settings of Relay 1 apply, and the remote control channel driving Relay 1 controls the system. For this function to be valid, DIP switch No. 7 must be ON .

6. Qulp-R – REMOTE CONTROL PAIRING / DELETING

6.1 Pairing a Remote Control



To pair a new remote control with the control card, QULP series remote controls must be programmed using the QULP-X programming device.

Step 1: Press and hold the BUTTON on the control card until you hear a beep from the buzzer. (1/2 sec)

Step 2: When the buzzer beeps, release the button and, on the relevant buttons of the remote controls you want to pair, **press/release**. The buzzer on the control card will **beep twice briefly** for every successfully paired remote control. The control card stays in learning mode for 10 sec; if no new remote control is paired within this time, the control card exits learning mode after 10 sec and returns to normal operating mode. The control card can be paired with a maximum of **500 QULP** series remote controls.

6.2 Deleting Remote Controls

Step 1: Disconnect power from the control card, then reapply power while holding down the BUTTON on the product.

Step 2: The buzzer on the card will beep; keep holding the button until the sound stops. When the sound stops, release the button; once the buzzer beeps twice afterward, all remote controls will have been deleted.

6.3 Remote Learning Mode

(Only for Kontal-Coded QULP Series Remote Controls!)



For this feature to be usable, DIP switch No. 1 must be active.

Allows you to add a new remote control to the system using an existing remote control, without opening the card cover.

Step 1: On any remote control already registered with the control card, press **buttons 1 and 2** simultaneously. When the remote control's LED lights up steadily, release your hand, then in order **press button 1 seven times and button 2 three times**. (When the LED on the control card turns on and the buzzer starts beeping, this means the mode has been entered.)

Channel Matching Requirement

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

- Example: If you paired the old remote control using button 1, you must also pair the new remote control by pressing and releasing button 1. If a different button is used, the system will not save the new remote control.

Step 2: On the new remote control you want to pair, **on the relevant channel**, press and release **(you must pair it using the same channel you used for the old remote control)**. The buzzer on the control card will **beep twice briefly** for every successfully paired remote control. The control card stays in learning mode for 10 sec; if no new remote control is paired within this time, the control card exits learning mode after 10

sec and returns to normal operating mode. The control card can be paired with a maximum of **500 QULP** series remote controls.

6.4 Automatic Learning Mode

(Only for Remote Controls Programmed with the Qulp-X Device!)



For this feature to be usable, DIP switch No. 1 must be active.

In this mode, you can pair QULP series remote controls that are not yet registered with the control card but share the same company code as a remote control already registered with it, simply by pressing and releasing the relevant buttons, without accessing the control card. The buzzer on the control card will **beep twice briefly** for every successfully paired remote control. The control card can be paired with a maximum of **500 QULP** series remote controls.

7. Qulp-R – LOCK MODE

This mode allows the receiver to retain its last relay state in the event of a power outage. For example, if power is cut while Relay 1 is active, the system will remember this state when power returns and automatically restore Relay 1 to the active position. To activate lock mode;

Step 1: Press the button on the card.

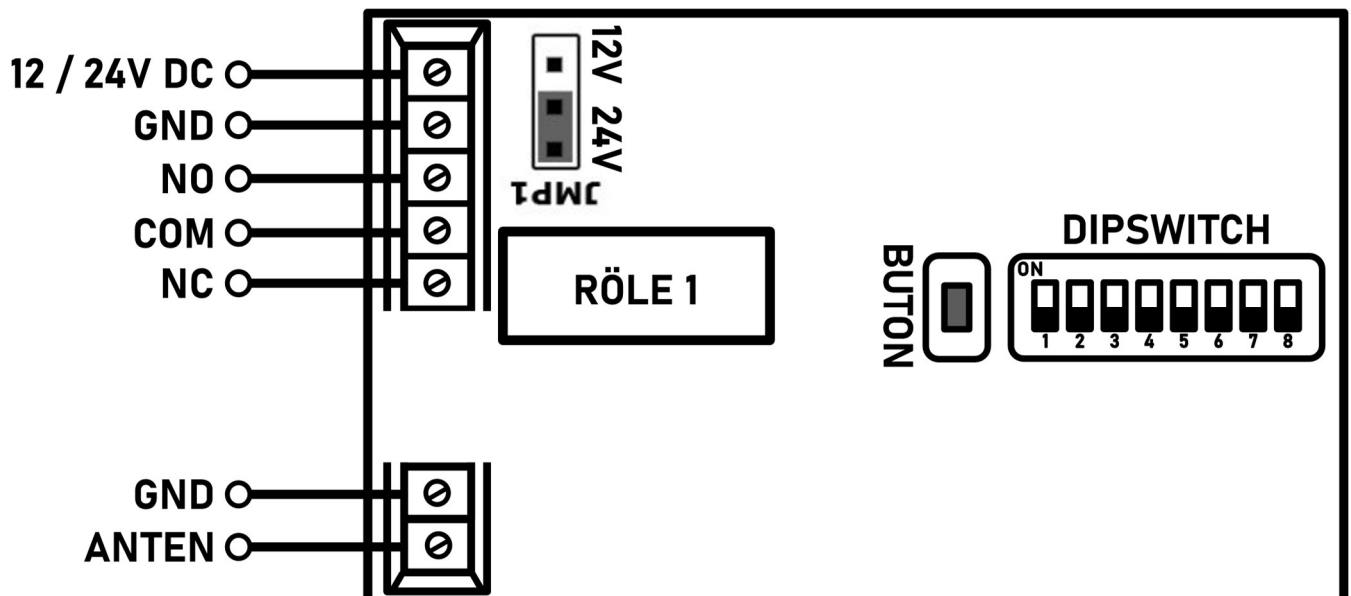
Step 2: After the first warning sound from the buzzer, continue holding the button down.

Step 3: After approximately 10 sec, the buzzer will beep 4 short times.

Step 4: After hearing the beeps, release the button. Lock mode is now activated.

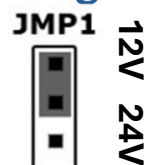
TO DEACTIVATE LOCK MODE, REPEAT THE STEPS ABOVE!

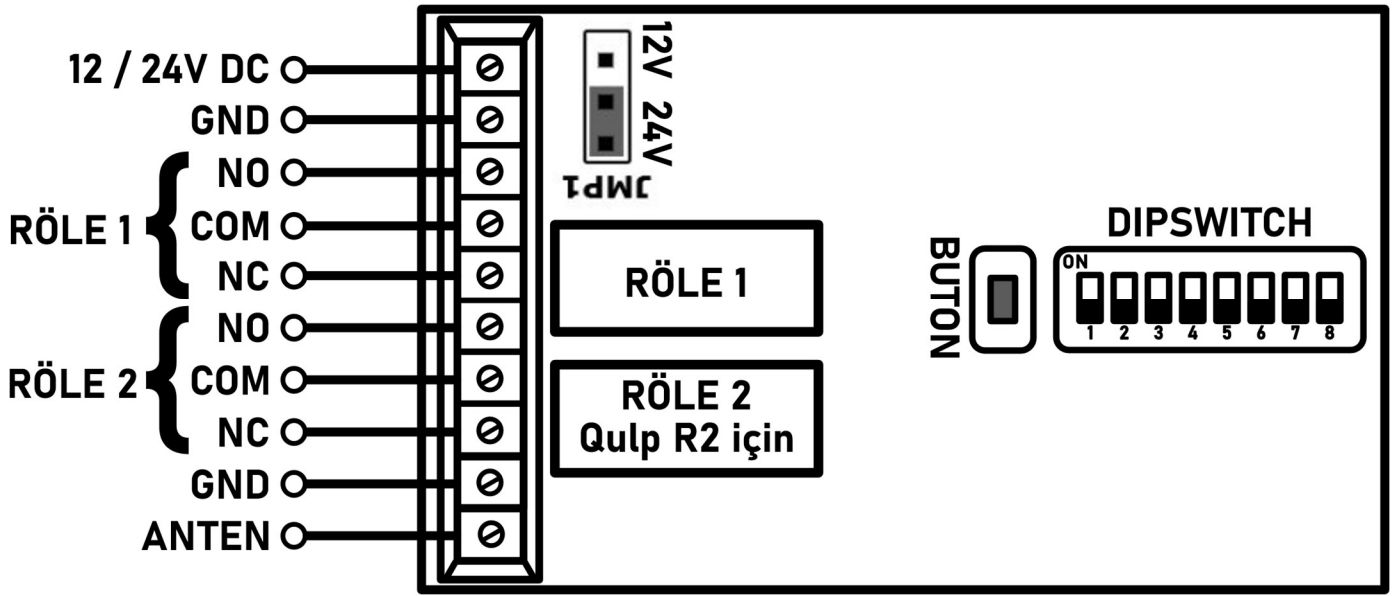
8. Qulp-R – WIRING DIAGRAM



Qulp R1 – Wiring Diagram

If the product will be powered with 12V, you must set JMP1 to the position shown in the figure.



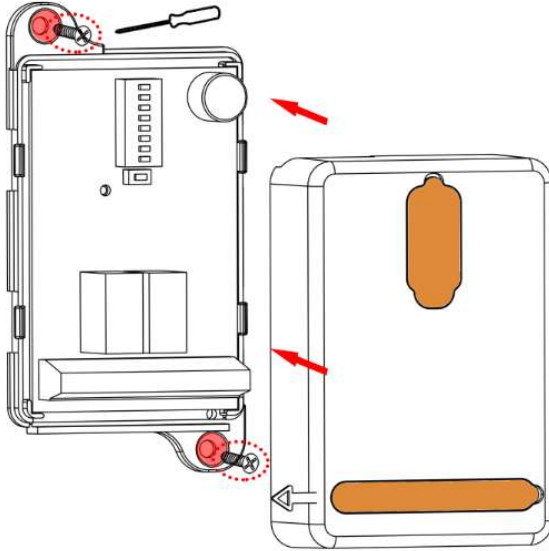


Qulp R2 – Wiring Diagram

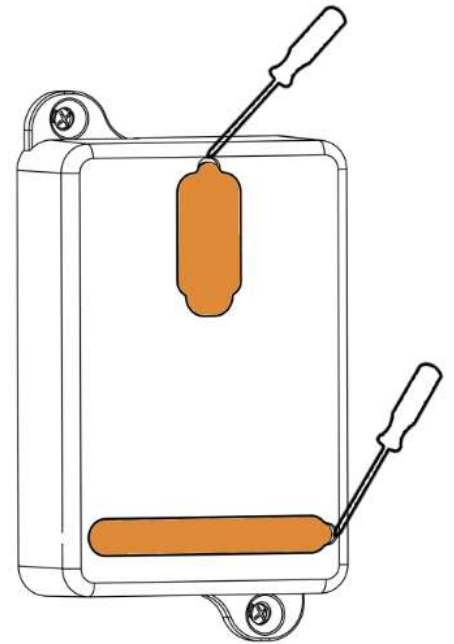
If the product will be powered with 12V, you must set JMP1 to the position shown in the figure.



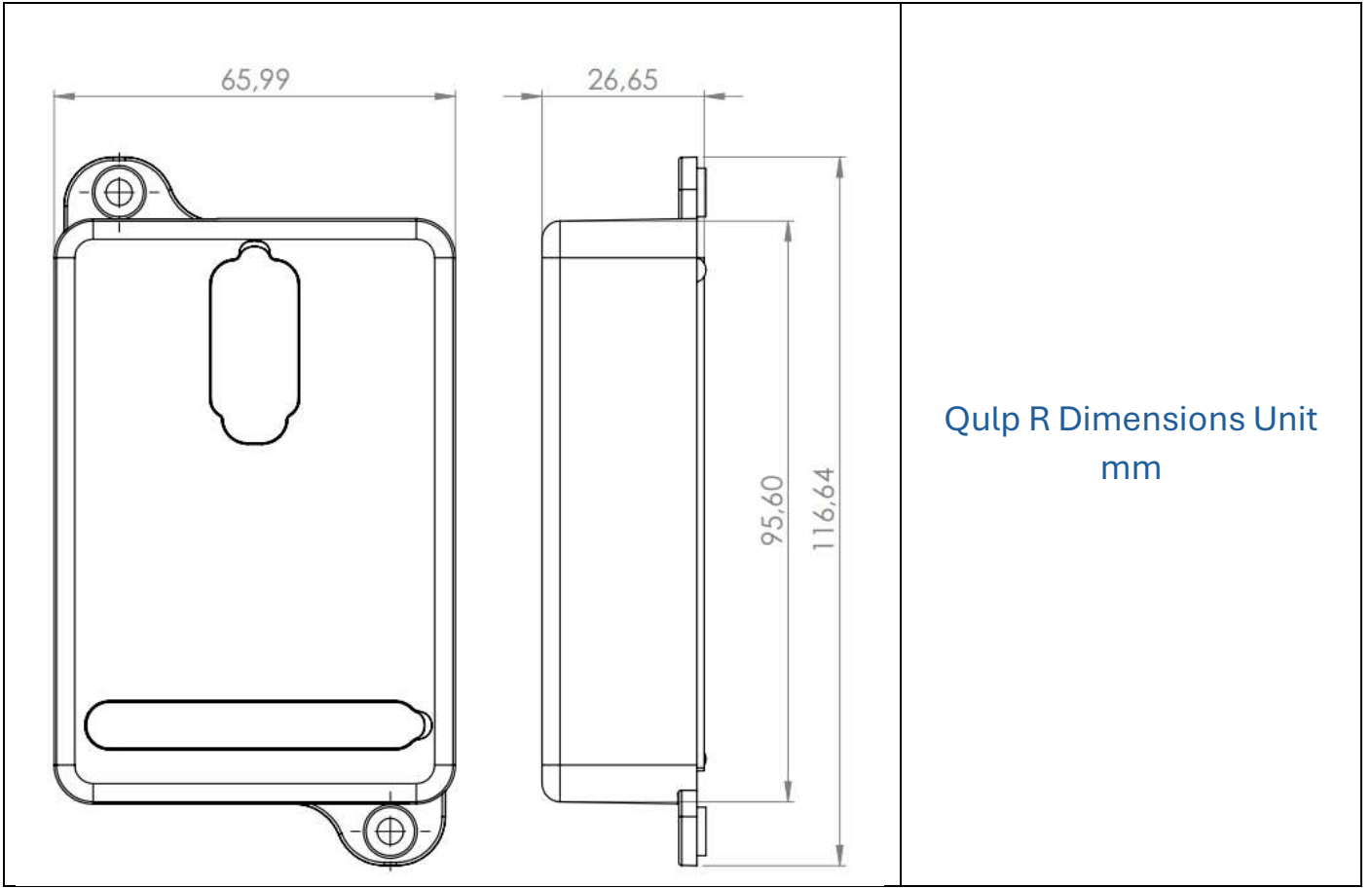
9.Qulp-R- INSTALLATION



Qulp R – Fastening to a flat surface with screws.



Qulp R – Removing the upper rubber parts



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