

E27 97RA-01\*1041\*00



**Attention:** Before installing, read the instructions and recommendations contained in the manual. Equipment must be installed and used in accordance with these instructions. The device is designed for installation in motor vehicles with 12 -volt electrical. The device must be connected to 12V and negative terminals grounded. The manufacturer and retailer are not responsible for any damages resulting from improper installation, use, operation or control of the product differently from the instructions for use. Incorrect repairs to the facility or its treatment are at risk of damage to the equipment or vehicle power supply and loss guarantees. For proper operation and flawless product, we recommend installation of professional service.

**SYSTEM DESCRIPTION**

KEETEC CZ 100 / CZ KEY is control unit of central lock on remote control for all types engine vehicles with 12V power supply. The control unit works with optional central lock also with possibility of trunk control. Communication between control unit and remote control is protected by hopping code. Control unit contains sequential output on direct indicators that enables direct connection on warning lights (impulse wire).

**I. REMOTE CONTROL DESCRIPTION**



**REMOTE CONTROL RC KEY**

- Button 1** - Lock (Turned ignition OFF, direction lights flash 1x)
- Button 2** - Unlock (direction lights flash 2x)
- Button 3 (1 sec.)** - Trunk open (direction lights flash 3x)

**REMOTE CONTROL RC 380**

- Button 1** - Lock (Turned ignition OFF, direction lights flash 1x)
- Button 2** - Unlock (direction lights flash 2x)
- Button 3 (1 sec.)** - Trunk open (direction lights flash 3x)
- Button 3 (2x to 1 sec.)** - press 2 x the button 3 to one seconds and activate the "LOCK CHECK. Each button press is indicated in red flashing LEDs. Then, the LED flashes green or twice, depending on whether you last pressed the **button 1** (1 flash green) or **2** (2 flashes green)

**FUNCTION LOCK CHECK**

This feature allows the user to determine which button on the remote control as the final push. This is a key lock, unlock, and the user can check the exit tap the lock on the vehicle. CHECK LOCK function is optional and registration is disabled.

**Button 1 + 3** - Turn on / off LOCK CHECK. Enabling this function is signaled by a green flashing LED on the remote and turn off flashing red.

**Note:** When installing in vehicles CZ KEY, with manufacturing and immobilizer key is Transponder (chip), it is necessary to remove the transponder and in the remote controller RC KEY, otherwise the car can be started.

**REMOTE CONTROL RC MAX**

- Button 1** - Lock (Turned ignition OFF, direction lights flash 1x)
- Button 2** - Unlock (direction lights flash 2x)
- Button 3 (1 sec.)** - Trunk open (direction lights flash 3x)
- Button 1 + 3** - Turn on / off LOCK CHECK

**FUNCTION LOCK CHECK**

This feature allows the user to determine which button on the remote control as the final push. This is a key lock, unlock, and the user can check the exit tap the lock on the vehicle. CHECK LOCK function is optional and registration is disabled.

Activate the current function by pressing buttons **1 + 3**, two seconds. When activated, the icon will flash once for lock and unlock and deactivate the function twice. If the function is activated, the last button pressed you will find a short pressing button **4** When the button is pressed for 0.8 seconds. Lights lock or unlock icon, depending on which button was pressed last.

**Note:** When activated LOCK CHECK battery life is shortened in the driver.

**Low battery driver**

If the push button to lock or unlock the blue flashing battery icon is in the remote battery is weak and capacity is needed to be replaced.

**Turn lights on RC MAX**

Pressing button 4 more than to 1 second to turn the LED on the front of the driver. LED lights when you hold the button pressed and after a set period of time off, while still holding the button pressed. The length of how long the push button LED lights, can be set.

**Adjusting the length of time switching the light on RC MAX**

Time how long it has an LED light, can be set from 1-30 seconds or indefinitely. Simultaneously press buttons 1 and 4 per second. The red LED for 3 seconds. After the extinction of the flashes in one second intervals. During this time, press button 4 for such a long time (up to 30 seconds), how long you want to hold to the light shining. If you press the button during a flash, illumination time will be limited. Programming Time for 30 seconds will automatically terminate.

**II. SYSTEM INSTALLATION**

Disassemble plastic cover of dashboard. Find wires on control unit which control central lock. For any vehicle types the central lock connects directly in door of vehicle. Use a digital multimeter for function test of wires in the vehicle as well as if you know the function of wire. After wires designation disconnect accumulator of vehicle and connect cable tie of the car alarm to wires necessary for correct functionality according to added schemas. Solder up all wiring and isolate. After finish of the central lock installation connect accumulator of vehicle and plug-in a fuse to fuse cover of the central lock. Checkout correct functionality of the central lock as well as electrical installation of vehicle (ignition, direct indicators, ...). Fit plastic cover of car dashboard.

**Control unit location**

Place the control unit inside of the dashboard. Fix antenna of the control unit so that it does not touch of metal parts of the vehicle.

**CONNECTOR CN1 (14-PIN) - INPUT AND OUTPUT CONNECTOR**

Connect wires for central lock control according to type central lock in vehicle and according to wire diagram of central lock connection.

**White/blue** (+/- 300mA) Sequential output on optical signalling (output wire).

Connect sequential output to warning lights switch (impulse wire).

The output is active at lock and unlock of central lock. If this output is used then

power outputs on direction lights are not need to connect.

**Yellow** (+) ignition +12V (input wire)

**Violet** Trunk open (output wire)

**Black** (-) skeleton car (input wire)

**Violet** Trunk open (input wire)

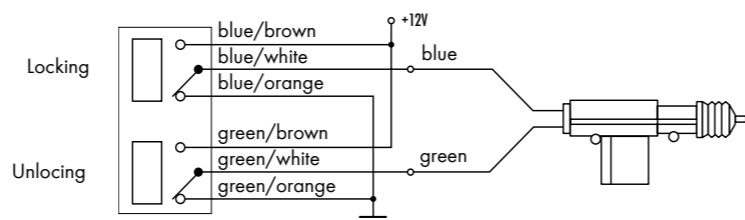
**Orange** (+) Power output for direction lights (output wire)

**Orange** (+) Power output for direction lights (output wire)

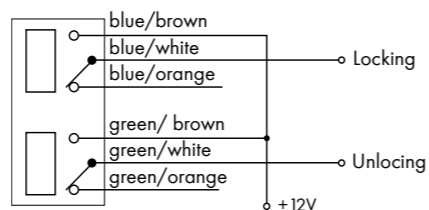
**Red** (+) Power supply +12V (input wire)

**III. CENTRAL LOCK CONNECTION**

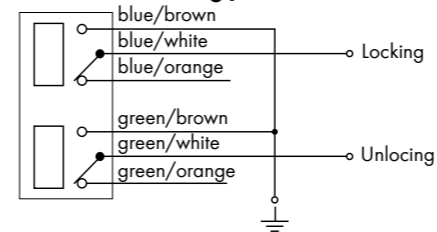
**Direction actuators control**



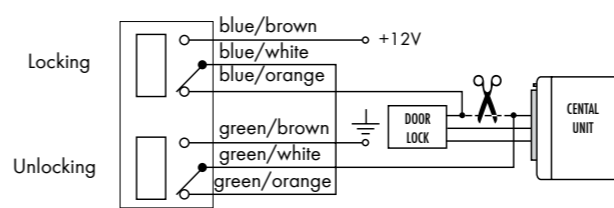
**Central lock control by positive impulse**



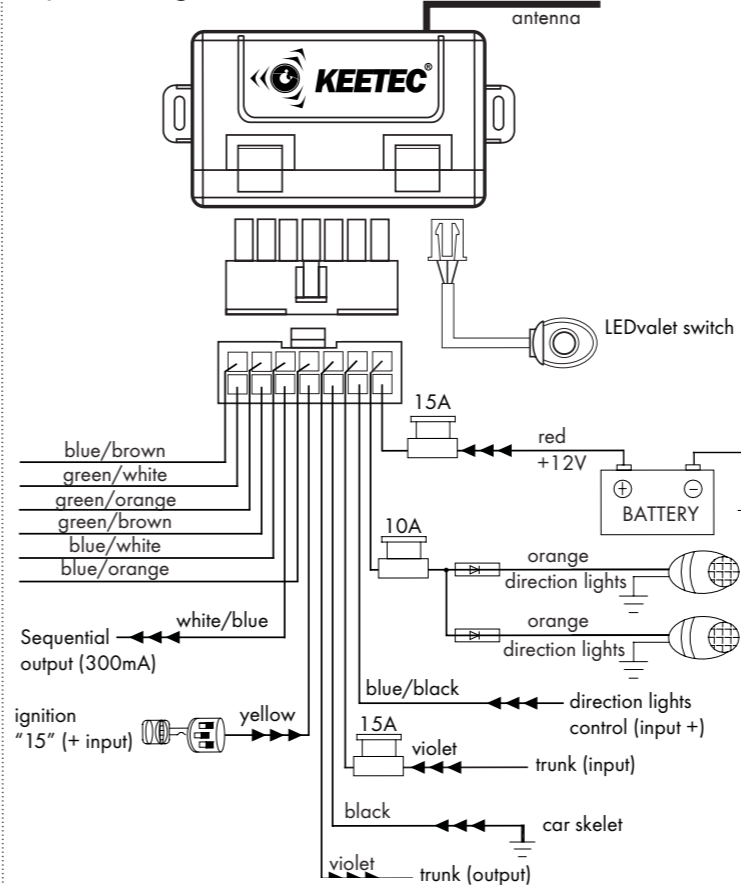
**Minus control central locking pulse**



**Pneumatic central lock connection**



**IV. WIRE DIAGRAM**



**V. PROGRAMMING OF REMOTE CONTROLS**

Turn on the ignition, press the valet switch 5 times and turn off the ignition. LED starts to blink rapidly to confirm entry into programming mode. Press any button on the remote control within 10 seconds. Programming the remote control is confirmed by flashing directional lights (1x for DO1 to DO2). The programming will automatically be terminated within 10 seconds after programming the remote control or turn off the ignition.

**Attention:** When programming a new remote control is needed to program the remote control in the system already programmed!

**Note:** The system can be programmed up to 3 or 6 remotes (menu 3)

**VI. PROGRAMMING SEQUENTIAL Output**

1. Turn on the ignition and press the service button 4 times within 10 seconds
2. Turn on the ignition. LED stays lit
3. within 10 seconds press the directional warning lights. Directional lights blink
4. when the indicator lights will flash 8, the LED goes out and confirms the successful programming of the output sequence. Disabling warning directional lights stop sequence programming output.

**VII. PROGRAMMING SYSTEM FEATURES**

1. Turn on the ignition and press the service button 7 times within 10 seconds.

2. Turn off the ignition. LED flashes 3 times to confirm entry into the programming of system functions.
3. Press the service many times as the number of function you want to program. After each pressing the LED blinks 1x. Where is the serial number of the function 10, press the service button for 3 seconds. LED flashes 2x, by confirming that you are in programming feature with the order by 10 Where is the serial number of the function 20, press the service button for 3 seconds. LED flashes 2 times. Again, press the service button for 3 seconds. LED will blink 2x confirming that you are in programming function with serial number 20.
4. After entering the function you want to set the ignition switch. Directional lights will flash 1x or 2x, depending on how the feature set. If you want to continue with the setup function, follow from point 2.
5. If you want to end programming, turn on the ignition and press the button once the service. The system terminates the programming.

**Programming table**

program. menu	function	set (1 flash)	optional (2 flashes)
F1	CZ Locking the ignition	Permitted	Prohibited
F2	Burst mode output	hard	learning
F3	Number of remotes	6	3
F4	The polarity of the output sequence	(-)	(+)
F5	Sequential Output Type	sequence	normal
F6	Unlocking pulse length	0,5 sec.	3,5 sec.
F7	Lock pulse length	as unlocking	20 sec.
F8	Double pulse lock	Prohibited	Permitted
F9	Double pulse unlock	Prohibited	Permitted
F10	Lock / unlock using the service when the ignition key	Permitted	Prohibited
F20	RESET		

**VIII. FUNCTION DESCRIPTION**

**F1. To lock the central locking when the ignition**

Default: When the ignition lock with central locking

Adjustable: When the ignition with the central locking does not lock

**F2. Burst mode output**

Default: Fixed sequential output. Interval flashing directional lights using sequential output is factory set

Adjustable: Learning sequential output. Interval flashing directional lights using sequential output can be set by the vehicle in which the system is fitted (IV Programming Sequential Output)

**F3. Number of remotes**

Default: The system can be programmed remotes 6 pcs

Adjustable: The system can be programmed 3 pcs remote control

**F4. The polarity of the output sequence**

Default: Continuous output is negative polarity

Adjustable: Sequential output is positive polarity

**F5. Sequential Output Type**

Default: Continuous output

Adjustable: Normal output - such as power input on the direction of light

**F6. Unlocking pulse length**

Default: unlocking pulse duration is 0.5 seconds

Adjustable: unlocking pulse duration is 3.5 seconds (it is not possible to set a double unlock / lock pulse)

**F7. Lock pulse length**

Default: pulse length j the same as unlocking pulse

Adjustable: The length of the lock pulse is 20 seconds (can be used to tighten the electrically operated windows extend lock pulse)

**F8. Double pulse lock**

Default: double lock pulse is switched off

Adjustable: Double lock pulse is switched

**F9. Double pulse unlock**

Default: A double unlock pulse is switched off

Adjustable: A double unlock pulse is switched

**F10. Lock / unlock using the service when the ignition key**

Default: Allowed. When the ignition key lock, press service / unlock the central locking

Note: When disabled F1 and lock the vehicle using the service key in the ignition, after shutting down the central locking system is locked by flashing LED.

Adjustable: Disabled

TECHNICAL PARAMETERS	
Power Supply	12V +/- 25%
Working Temperature	-30°C - 70°C
Stand by mode	7,5mA
Trasfer frequency	433,92 MHz