



**WARNING:** Carefully read following instructions and technical specifications in this manual before installation. The system must be installed and used only according to this manual. The system is designed for vehicles with 12V power supply. It has to be connected to 12V output and to the ground. Neither producer or seller of the system is responsible for damages caused by incorrect installation, using or operating of this product. Unprofessional operation or modification of the system can damage the system alone, or the electric system of the vehicle and leads to warranty loss. For proper working of the system we recommend the installation to be made by authorized service.

**DESCRIPTION**

KEETEC CZ SMART is the central locking control unit with contactless opening designed for all types of motor vehicles with a 12V supply voltage. The control unit works with any central locking control with the possibility of opening the luggage compartment. Communication between the control unit and remote control is protected by floating codes. The control unit contains a sequence directional light output, which allows direct connection of the emergency stop switch.

**REMOTE CONTROL BUTTON DESCRIPTION**

BUTTON	FUNCTION	CONDITIONS
	vehicle lock	ignition turned off
	vehicle unlock	locked vehicle
	trunk open	ignition turned off
	trunk open	ignition turned off (only RC KEY)
	a: „LOCK CHECK“ activation b: „LOCK CHECK“ deactivation	„LOCK CHECK“ is turned off „LOCK CHECK“ is turned on
	activation of „LOCK CHECK“ (check of last pressed button on remote control)	always (only RC MAX)
	turn on LED diode in front of remote control	always (RC MAX, RC METAL)
	turn on LED diode in front of remote control	always (RC LINE)
	adjust length of LED lighting when button is pressed	always (only RC MAX)
	vehicle searching	always (only RC MOTO)

**Note:** Lock Check function is available only at RC MAX remote controls!

**“LOCK CHECK” FUNCTION (RC MAX)**

This function allows you to check which button was pushed last time. Buttons for locking and unlocking can be checked and therefore user can check, whether he locked the car or not. LOCK CHECK function is optional and turned off from factory. You can activate the function by holding buttons and together for two seconds. When activating, icons for locking and unlocking will blink once. When deactivating, they will blink twice. If the function is activated, you can check the last pushed button by briefly pushing button . After that the icon of locking or unlocking will light for approx. 0,8 sec, depending on which button was pushed last time.

**Warning:** When the LOCK CHECK function is activated, battery life will be shorter.

**LOW BATTERY INDICATOR (RC MAX)**

If the battery indicator will flash in blue colour when locking or unlocking vehicle, the battery in remote control is weak and you have to replace it with new one.

**TORCH FUNCTION (RC MAX, RC METAL, RC LINE)**

By holding button on remote control RC MAX, RC METAL and button on RC LINE for more than 1 sec, high power LED in front of the remote will light up. LED will light as long as you hold the button or for a specified time, even if you hold the button longer (only RC MAX). The time how long the LED can glow is adjustable (only RC MAX).

**LED LIGHTS DURATION SETTING ON RC MAX**

Duration of LED light can be adjusted from 1 to 30 sec or without limit. Push buttons and together for 1 sec. Red LED will flash for 3 sec. After those 3 sec, the LED will start to flash in 1 sec intervals. Press the button for as long as you wish the light to be switched on (max. 30 sec). If you don't press any button, light duration will be unlimited. Duration programming will automatically end after 30 sec.

**VEHICLE SEARCHING (only RC MOTO)**

Press button for vehicle searching. Directional lights flashes 10 times.

**II. SYSTEM INSTALLATION**

Remove the plastic covers the dashboard of the vehicle. Find the wires that control central locking, located on the control unit. For some types of vehicles to be powered directly by the central locking the door of the car. The testing functions in the vehicle wiring, use only digital altimeter, and even if you know what function the wire serves. After determining the wires, disconnect the battery and connect the wiring harness designed for central locking wires for proper functioning, according to the attached diagrams. All connections soldered and insulated. After installing central locking plug from the car battery and insert the fuse into the fuse housing from the central locking. Protect the proper functioning of the central locking and electric vehicles performance (ignition, directional lights, ..) Install the plastic covers of the dashboard.

**The location of the control unit**

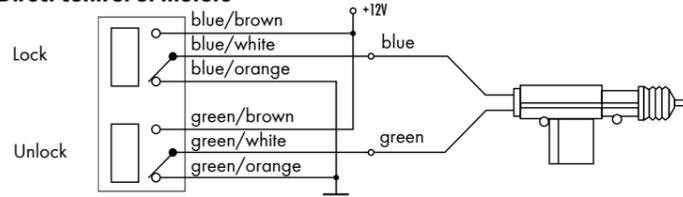
Place the control unit from inside the protective plastic dashboard. Attach the antenna control unit so that it does not touch the metal parts of the vehicle.

**CN1 CONNECTOR (14PIN) - INPUTS AND OUTPUTS**

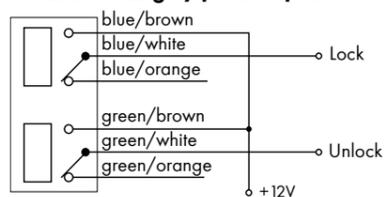
Wires connect control central locking central locking system according to the type used in the vehicle and according to the connection diagrams of the central locking. **White / Blue** (+ / - 300 mA) sequential optical output signal (output wire) Sequential output switches to connect the warning indicators. Output is active when the lock / unlock the central locking. When using this output is no longer necessary to engage the power outputs of directional light. **Yellow** (+) ignition +12 V (input wire) **Purple** open the trunk (output wire) **Black** (-) frame points (input wire) **Purple** open the luggage compartment (input wire). What you bring to the polarity of this input, such will be the output wire opening the luggage compartment. **Blue/black** (+) Control the direction indicators (input wire). This wire is connected in the event that the optical signal using a sequential output. **Orange** (+) power output of the directional light (output wire). The outputs are separated rectifier diodes. **Red** (+) power +12 V (input wire)

**III. CENTRAL LOCKING CONNECTION**

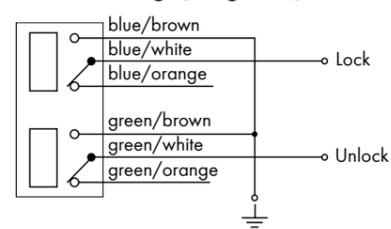
**Direct control of motors**



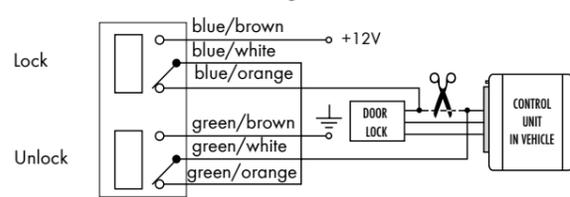
**Control central locking by positive pulse**



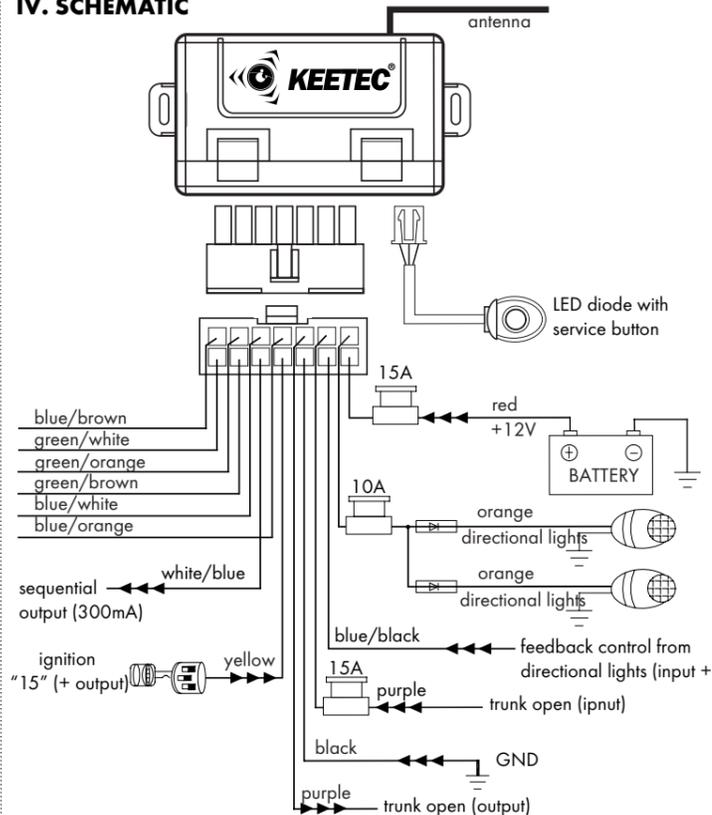
**Control central locking by negative pulse**



**Control pneumatic central locking system**



**IV. SCHEMATIC**



**V. PROGRAMMING THE REMOTE CONTROLS**

- Turn on the ignition, press the button 5 times and turn off the ignition
- LED starts to flash after confirming entry into the programming mode
- Press the button on the remote control within 10 seconds
- Programming the remote control is confirmed by flashing directional lights (1 x remote control no.1, 2 x remote control no.2)
- Programming stops automatically 10 seconds after the last program the remote control or turn off the ignition.

**Attention :** When programming a new remote control must be programmed remotes already programmed in the system!

**Note:** The system can be programmed up to 3 or 6 remote controls (see Menu F3)

**VI. PROGRAMING SYSTEM FUNCTIONS**

1. Turn on the ignition and press the button 7 times in 10 seconds
2. Turn off the ignition. LED flashes 3 times to confirm entry into the programming system functions
3. Press the service button so many times, what is the function number you want to program. Each time the LED flashes 1x. As long as the serial number of the function 10, press the service button for 3 seconds. LED flashes 2x, thereby confirming that you are programming in order to function with 10. As long as the serial number function 20, press the service button for 3 seconds. LED flashes 2 times. Again, press the service button for 3 seconds. LED flashes 2 by confirming that you are in programming functions with serial number 20
4. After entering the function you want to set, turn on the ignition. Directional lights flash 1 or 2, depending on how the feature set. Turn off the ignition. If you want to continue setting function, follow from point 2.
5. If you want to put an end programming, turn on the ignition, press the service button and turn off the ignition. The system exits programming.

**Programming table**

program. menu	Function	Factory set (1 flash)	Optional (2 flashes)
F1	lock central locking after turn on ignition	allowed	prohibited
F3	number of remote controls	6	3
F4	sequential output polarity	(-)	(+)
F5	optical signalization	normal	sequential
F6	length of unlock pulse	0,5 sec.	3,5 sec.
F7	length of lock pulse	as unlock	20 sec.
F8	double lock pulse	prohibited	allowed
F9	double unlock pulse	prohibited	allowed
F10	lock/unlock using service button when ignition is turned on	allowed	prohibited
F20	RESET		

**VII. FUNCTION DESCRIPTION**

- F1. Lock central locking after ignition is turned on**  
PRE-SET: after turning ignition on, central locking lock  
ADJUSTABLE: after turning ignition on, central locking doesn't lock
- F3. Number of remote controls**  
PRE-SET: system allows to program 6 remote controls  
ADJUSTABLE: system allows to program 3 remote controls
- F4. Sequential output polarity**  
PRE-SET: negative polarity of sequential output (- 300mA)  
ADJUSTABLE: positive polarity of sequential output (+ 300mA)
- F5. Optical signalization**  
PRE-SET: normal - when optical signalization is set as normal, only power output for directional lights is active (orange wire)  
ADJUSTABLE: sequential - when optical signalization is set as sequential, only sequential output for directional lights is active (white/blue wire)  
**Note:** power and sequential output for directional lights are never active at same time
- F6. Length of unlock pulse**  
PRE-SET: length of unlock pulse is 0,5 sec.  
ADJUSTABLE: length of unlock pulse is 3,5 sec.
- F7. Length of lock pulse**  
PRE-SET: length of lock pulse is same as length of unlock pulse  
ADJUSTABLE: length of lock pulse is 20 sec. (it is possible to use this function to close roll-up windows by extended lock pulse)
- F8. Double lock pulse**  
PRE-SET: double lock pulse is turned off  
ADJUSTABLE: double lock pulse is turned on
- F9. Double unlock pulse**  
PRE-SET: double unlock pulse is turned off  
ADJUSTABLE: double lock pulse is turned on
- F10. Lock/unlock using service button when ignition is turned on**  
PRE-SET: allowed. By pressing service button during ignition turned on, you can lock/unlock the vehicle.  
**Note:** if function F1 is prohibited and you lock yourself in vehicle using service button when ignition is turned on, after turning ignition off central locking system is still locked and LED diode start flashing.  
ADJUSTABLE: prohibited

TECHNICAL PARAMETERS	
Power supply	12V +/- 25%
Working temperature	from -30°C to 70°C
Stand-by current	7,5mA
Operational frequency	433,92 MHz

**Note:** CZ 100, CZ KEY, CZ LINE, CZ MAX contains remote controls working in 433,92 MHz band. For declaration of conformity of this product ask your dealer.