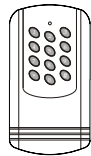


DIP-SWITCH KEYPAD

CE 0681



RCS-433KPD
RCS-433KPD T

MANUAL OF
INSTALLATION

1 - Introduction

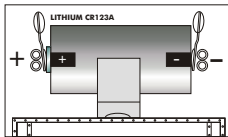
RCS-433KPD Keypad is a codified radio keyboard operating at 433,92 MHz. The best use of the product is on applications where a codified radio signal has to be used to control: gates, garage doors, rolling shutters, sun-blinds, anti-burglar appliances, lightings, etc. The code has a very high security coding system (19683 code combinations). The radio transmission is enabled only after the dialing of a security user code. There are up to 4 + 2 different channels that can activate up to 6 different receivers or relays. Compatible receivers: RCS-433DSR2, RCS-433DSR4. The internal memory can store up to 25 different security user codes and 1 Master code. The product fully complies with the European directives 89/336/CEE, 99/05/CE and Part. 15 of FCC Rules..

2 - Technical specifications

Number of keys:	12
Number of channels:.....	4 + 2
Supply:	3 Vdc
Battery duration:.....	about 36 months
Battery type:.....	Lithium CR123A
Current consumption:.....	20 mA
Operating frequency:.....	433.92 MHz
Modulation:	AM/ASK
E.r.p.:.....	6 mW
Security Code combinations number:.....	19683
User security code number:.....	25 + 1
Transmission duration:.....	2 sec.
Range in open space:.....	from 150 to 700 m
Operating temperature:.....	from 14 °F to 131 °F
Dimensions:	5.7x3.07x1.25 in
Weight:.....	3.24 oz
IP Protection Grade:	IP44
Buzzer / Tamper (where installed)	

Battery replacement

Remove the cover and extract the old battery from the bottom site of the electronic card with an upward traction. Insert the new battery on the battery location, respecting the right polarity.



3 - Types

RCS-433KPD : Dip-switch Radio keyboard without tamper;
RCS-433KPD T : Dip-switch Radio keyboard with tamper;

RCS-433KPD - SEDK2641A4
FCC ID : PWJDK433

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:
1) This device may not cause harmful interferences;
2) this device must accept interference that may cause undesired operation.

4 - Installation phases

- 1 - Locate the best position for the fixing, avoiding metallic surfaces that could decrease the RF emission;
- 2 - Mark the location of the fixing holes using the bottom of the box as drilling template;
- 3 - Drill the fixing holes and insert the plugs;
- 4 - Remove the protection strip from the seal;
- 5 - Assemble the seal and the bottom;
- 6 - Fix the bottom with the screws supplied;
- 7 - Mount the cover on the fixed bottom;
- 8 - Fix the cover to the bottom with the 2 screws supplied.

5 - Password

The keyboard has a Master Password factory-set to "11111". No radio signal can be transmitted until the Master default Password hasn't been changed (see fig. 1 for the replacement).

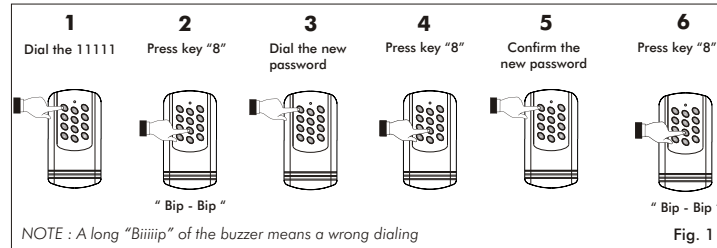
If the Master Password remains the default one, the following functions are allowed:

- Insertion of new User Codes;
- Cancellation of stored User Codes;
- Replacement of the Master key itself.

The Master Password and the User code can have up to 5 digits. If the chosen string is shorter than 5 digits, press the key "#" after the last digit, to complete the number, as indicated below:

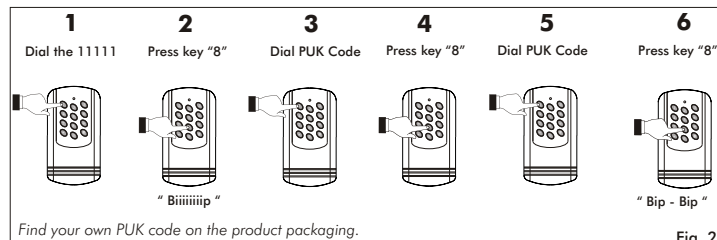
- Example 1 : User code 123 : Digit 1,2,3,#.
- Example 2 : User code 1234 : Digit 1,2,3,4,#.

6 - Master Password replacement



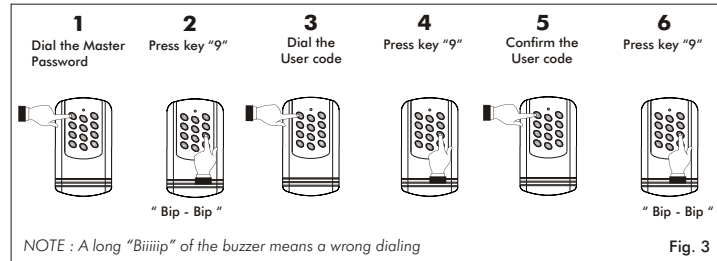
After 8 wrong dials of the master Password, the system disables the password and requests the dialing of the PUK code (Password Unlocking Key) (see Fig. 2). The procedure can be followed even if the Master Password is lost, in order to reset the security factory configuration.

7 - Master Password unblocking procedure



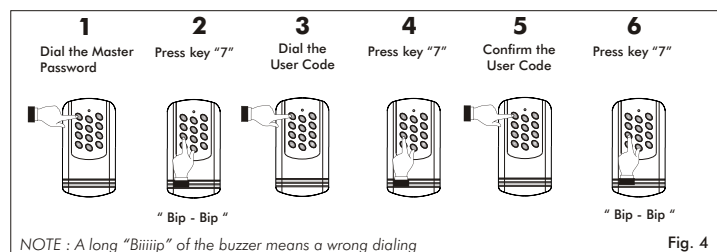
8 - New user memorization procedure

Each user can access to the transmitter by dialing his own code. For this procedure you need to know the Master Password (see Fig. 3)



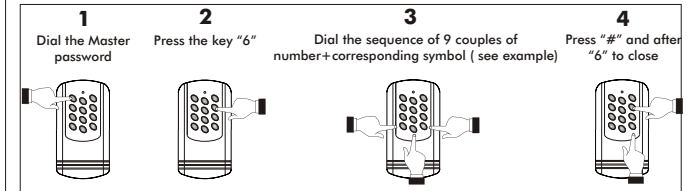
9 - User cancelling procedure

Follow the following procedure to cancel a user code . In this case you need to know the Master Password and the User Code to cancel (see Fig. 4).



10 - Security code setting

The keyboard security code is set by using of the keys "#", "0", "*". The setting is carried out dialing a sequence of 9 digits (1, 2, ..., 9), each of which has to be followed by the symbol #, 0 e * which corresponds to the (+, 0 e -) of a three-state 9 ways dip-switch. Follow the procedure below.



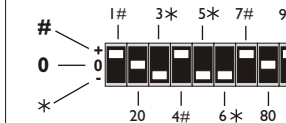
EXAMPLE : Setting of the following three-state code : +, 0, -, +, -, -, +, 0, + .

PHASE 1 : "Password master";

PHASE 2 : "6";

PHASE 3 : "1#","20","3*","4#","5*","6*","7#","80","9#";

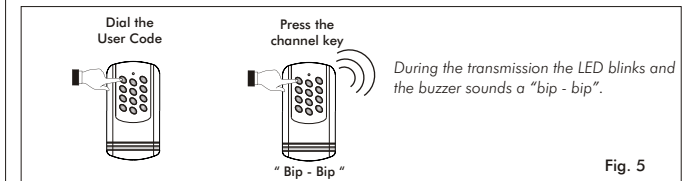
PHASE 4 : "#","6".



NOTES : All the keyboards are sold with the same default security code: it is highly advised to customize the code!

11 - Transmission

For the transmission, first digit the User Code (not the Master Password) and then press the key to activate (1, 2, 3, 4).



12 - Special functions

- ⊛ The key "*" cancel the dialing;
- ⊛ The key "# " repeat the last command (within 20 sec.)

The keyboard can transmit other 2 signals, different from the normal four signals of the keys (1 - 4).

"Tamper switch signal" : Where installed, the tamper is a switch with a NO contact, which put the keyboard in transmission if the contact is released. The tamper-type signal is transmitted when the following conditions occur:

- 1) When the tamper is released;
- 2) At every command key activation in tamper released state.

"Low Battery signal" : The low battery alarm activates the RF transmission when the battery level is under the configured value. The signal is sent at every command key activation.

13 - "Tamper" and "Low battery" signal memorization

The memorization of the special signals on the target receiver can be done as follows

- Tamper Signal: 1) Dial the Master Password 2) Press key "1"
Low Battery Signal: 1) Dial the Master Password 2) Press key "2"

WARNING

"Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment"

GUARANTEE

Warranty period : 24 months from the production date placed inside. In this period if the appliance has any malfunction due to defective component, it will be repaired or replaced by the manufacturer. The warranty doesn't cover the plastic box. The assistance will be performed at the manufacturer site.

Made in Italy