

# Receiver

## RX 433



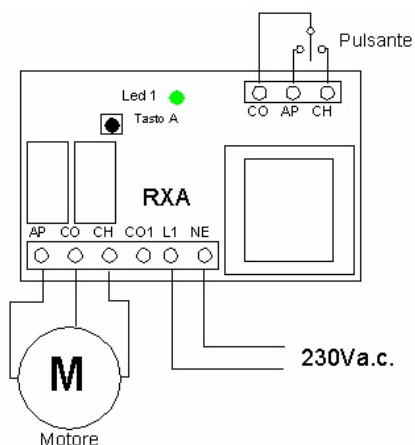
### **WARNING:**

This product may be installed only by qualified technical personnel and with full respect for the regulations covering the field of automatic opening.

### **1) GENERAL DESCRIPTION**

The Receiver 433 is an electronic device for remote control of motors for roller blinds, shutters and similar. You can connect to each Receiver only one motor at 230V a.c. up to rating 500W, or drive via the neutral output contact units, that control a series of motors or anything else that does not need a contact under tension.

### **2) Connection to Screen**



After isolating the incoming mains supply connect the 4 leads from the screen as follows:

(Whatever the connections are.)

Connect the motor as to the diagram:

AP = opens the brown or black wire according to the motor position.

CH = closes the black or brown wire, as to the motor position.

CO = blue common wire.

Connect the incoming power.

Test the unit.

### **3) Programming the Unit**

The unit controls the motor as required by commands from the transmitter or from a push-button that can be wired to the unit. The unit can memorise up to six transmitters while if a centralisation is needed, one transmitter can control a series of receivers.

The transmitter sends a UHF radio signal with the 66 figure Rolling Code recognition number, which is then recognised by the receiver in which it was memorised.

The unit container is not IP55, but must be positioned in an area protected from the weather.

The transmitter keys are coupled to the unit as follows:

On the single control, key 1 closes "CH" and 2 opens "AP"  
On the general control, key 3 closes "CH" and 4 opens "AP"

**All units are sold associated with their transmitters that are already coded.**

### **4) CODE MEMORISATION**

Receiver unit 433

To memorise transmitter codes in a receiver RX, proceed as follows:

- 1- Press and keep pressed for 1 second the key RXA (while the key is pressed, the green Led (LD1) remains off, and on release this Led lights again).
- 2- Press transmitter key 1; the unit Led 1 turns OFF. Press transmitter key 1 again; Led 1 flashes 3-4 times and then remains ON. The transmitter is now programmed in the central unit.

Transmitter

Codes are directly inputed to the transmitters during factory assembly, using codes that all differ.

**5) CODE CANCELLATION**

Cancelling codes from 433 central unit

To cancel the codes in a receiver unit 433, keep the key RXA pressed for the necessary time and until the Led 1 starts to flash; then release the key, the codes have been cancelled.

**6 ) PROCEDURE FOR THE GENERAL COMMAND**

In this chapter we describe the procedure to memorise two transmitter keys as a general command. In the example we centralise three motors; to each single unit we codify its transmitter, using the procedure described in Chapters 1 and 2. We can now memorise transmitter (A) as the general unit, and we proceed as follows:  
 Press key RXA and keep it pressed for 1 second (while pressed, the green Led (LD1) remains OFF, and comes ON when the key is released).  
 Press key 1 on the transmitter TXA; Led1 on unit RXA turns OFF. Press key 3 on the transmitter TXA and Led1 on RXA flashes 3-4 times and remains ON. The transmitter is now programmed in the central unit RXA.

(A) To memorise as general the keys 3 and 4 of TXA in RXB, proceed as follows:

1. Press key (B) on RXB for one second.
2. Press key 3 on TXA; Led 1 on RXB turns OFF.
3. Press key 4 on TXA and Led 1 on RXB flashes 3-4 times.
4. Now, pressing keys 3-4 on TXA both RXA and RXB move at the same time.

(B) To memorise as general the keys 3 and 4 of TXA on RXC proceed as follows:

5. Press key (C) on RXC for one second.
6. Press key 3 on TXA, Led 1 on RXC turns OFF.
7. Press key 4 on TXA and Led 1 on RXC flashes 3-4 times.
8. Now, pressing keys 3-4 on TXA, RXA, RXB and RXC all move at the same time.

To memorise a higher number of remote controls, proceed as shown in the examples A and B above.

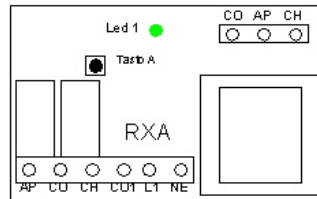
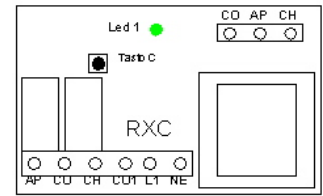
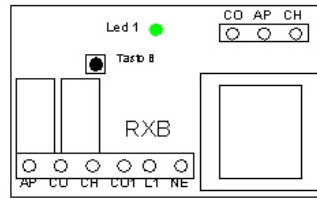
If you wish to memorise the general command on another transmitter as well, say TXB, proceed as described above, starting from RXB and TXB to initiate memorisation.

**Memorisation from the transmitter**

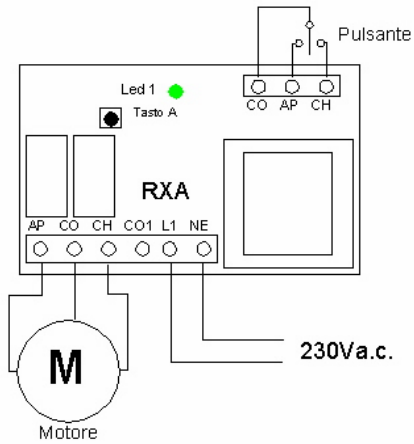
**NB this system can only be used to programme one further transmitter.**

Open the battery area cover of an already coded transmitter and press key 5 (fig.2). Led 1 on the unit flashes and turns OFF. Press key 5 again. The Led 1 on the unit flashes once and lights again. Press key 1 **on the transmitter to be coded**. Led 1 on the unit turns OFF. Press key 1 on the **new transmitter** again and Led1 flashes 3-4 times and remains ON. The transmitter is now programmed in the central unit.

**Key 5 programming**



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## **Technical Characteristics**

### Receiver 433

Supply	230V a.c. $\pm 10\%$ 50Hz
Current with $\cos\phi = 1$ resistive load	10 A
Current with $\cos\phi = 0.4$ inductive load	4 A (max 500W)
Nominal tension of contacts	250V a.c. 50Hz
Maximum operation time (relay)	120 sec.
Temperature range	$-20 \div +60^\circ\text{C}$
Reception frequency	433,92 MHz
Intermediate frequency	$\pm 70\text{KHZ}$
Bandwidth at $-3\text{dBm}$	$\pm 300\text{ kHz}$
Spurious antenna emission	$-70\text{dBm}$
Input RF impedance	$50\ \Omega$

### Transmitter 4CH

Alkaline battery supply	$12\text{V} \pm 10\%$
Maximum current	25 mA
Modulation	AM/ASK
Working temperature	$-10 \div 55^\circ\text{C}$

### Unit container

Container size 90 x 65 x 42  
No. 3 cable ways below.

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