SDC Security Door Controls

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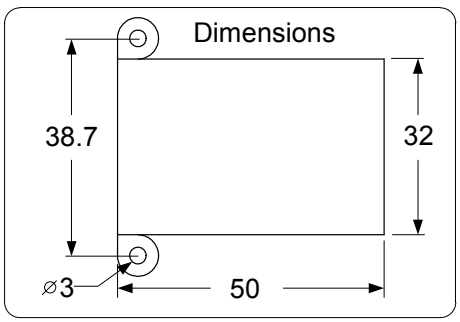
PROGRAMMING INSTRUCTIONS for the 400RC433
RECEIVER, ONE CHANNEL

REC 1 CHAN 433

1 - DESCRIPTION

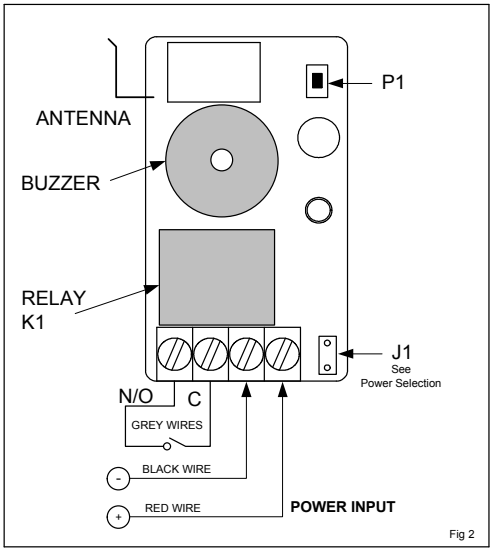
The Nano Receiver is designed to control automatic closing systems and anti-burglar systems, thanks to it's very high security coding system (KeeLoq® Hopping code).
The operating frequency is among European harmonized frequencies; the product fully complies with the EMC European Regulations (CA).
The code sent by the transmitter changes at every activation, avoiding any scanning and copying risk.
A special algorithm allows for synchronization of transmitter and receiver.
The receiver has 1 output relay with NO contacts, and can be connected to many types of mechanics (gate, garage door, rolling shutters,, awnings, anti-burglar appliances, etc.).
All the receivers of this range can store into the EEPROM a serial number, a manufacturer key and a synchronization algorithm of more transmitters.
The programming can be done in a self-learning mode by means of one button.
The housing protection allows indoor installations.
This appliance fully complies with the European Regulations89/336/EEC, 73/23/EEC, EN 60950-1 and FCC Part 15.



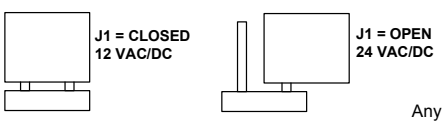
2 – TECHNICAL SPECIFICATIONS

Receiver type	Superheterodyne
Carrier frequency	433.92 MHz
Local oscillator frequency	6.6128 MHz
Demodulation	AM/ASK
Local oscillator	VCO / PLL
Channel width	> 25 KHz
Intermediate frequency	10.7 MHz
Input sensitivity	-115 dBm
Local oscillator spurious emissions	< -57dBm
Input load	50 Ohm
Power supply	12 / 24 VAC/DC
Max applicable power	12 VA
Relay number	1
Contacts	C-NO
Memory capacity	85 user codes
TX security code	Rolling code
Max code combination number	2
Operating Temperature	-20 / +70 deg C
Housing protection	IP2X
Overall dimensions (mm)	50 x 32 x 20

3 – LAYOUT AND CONNECTIONS



POWER SELECTION

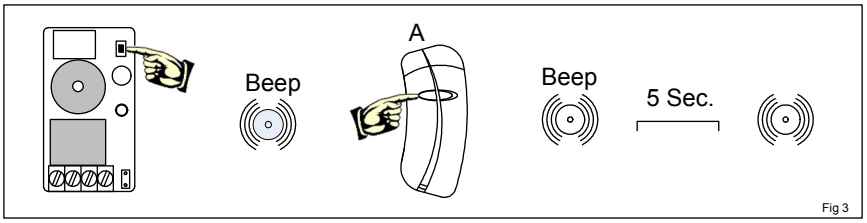


Any suggestions or comments to this instruction or product are welcome. Please contact us through our website or email engineer@sdcsecurity.com

4 – TRANSMITTER PROGRAMMING

4.1 Using P1

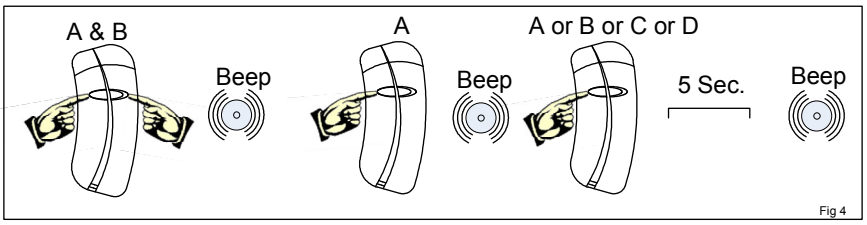
1) Keep P1 pressed down until the buzzer emits a short beep (Fig 3);
2) Push the key of the transmitter to program, and very the beep of the receiver;
3) At this point, the receiver waits for more transmitters – 5 seconds after the last transmitter is programmed, the receiver makes a beep and the procedure ends.



4.1 Using P1

With this procedure it is possible to program the transmitters without accessing P1 (Fig 4)

1) Push simultaneously the keys A & B of the transmitter until it beeps.
2) Release and push the A key until the next beep of the buzzer (memory opening);
3) Release A and push the key of the transmitter to program (A or B) until the beep of the buzzer (memory closing).



NOTE: The Programming of a new transmitter can be done only using a transmitter already programmed.
Use the transmitter already programmed to open the memory (Steps 1 & 2).
Complete the procedure by pressing the key of the new transmitter to program.

5 – MEMORY FULL

If the memory is full when you try to program a new transmitter, the buzzer beeps three times.

6 – MEMORY ERASURE

6.1 Single Transmitter

1) Keep P1 pressed down until the buzzer beeps, then release it.
2) Push the key of the transmitter to delete until the buzzer beeps.

6.2 Full Memory Erasure

1) Push P1 until the buzzer beeps, then release it.
2) Release P1 and push it again until the buzzer beeps 3 times. At this point, the memory has been completely erased.

7 – ENABLING/DISABLING THE ACTIVATION BEEP

To program the receiver to make a beep at each relay activation, follow this procedure: (Fig 5)

1) Simultaneously press the A & B keys of a previously programmed transmitter.
2) Release and press the B key of the transmitter to enable the beep.
   to disable the beep, repeat the above procedure.