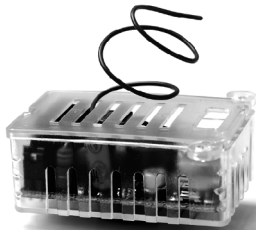


# RELAY NANO RECEIVER

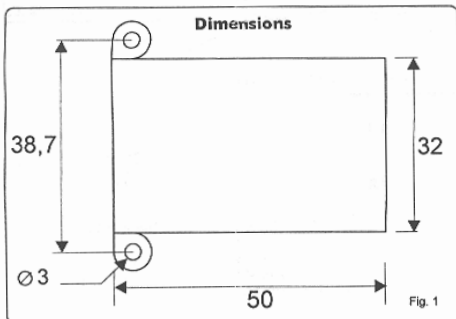


## REC 1 CHAN 433

*Thank you for choosing this  
Wikk Wireless product.  
Please read this manual carefully  
before installing the product.*

### 1 - DESCRIPTION

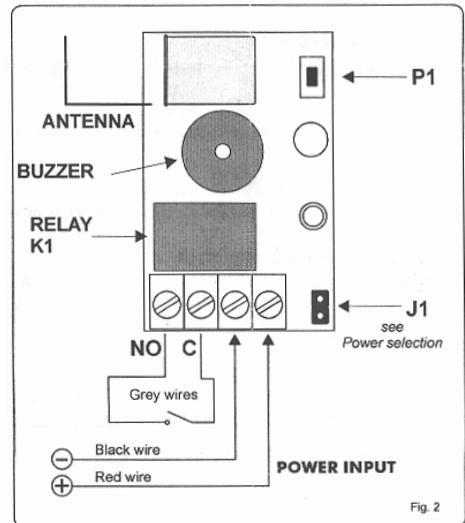
The Nano Receiver is designed to control automatic closing systems and anti-burglar systems, thanks to its very high security coding system (Keeloq® Hopping code). The operating frequency is among the European harmonized frequencies; the product fully complies with the EMC European Regulations (CA). 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 the 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 Regulations 89/336/EEC, 73/23/EEC, EN 60950-1 and FCC Part 15.



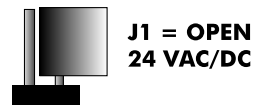
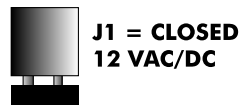
### 2 - TECHNICAL SPECIFICATIONS

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	< -57 dBm
Input load	50 Ohm
Power supply	12 / 24 VAC/DC
Max applicable power	24 VA
Relay number	1
contacts	C-NO
Memory capacity	85 user codes
TX security code	Rolling code
Max code combination number	2 <sup>64</sup>
Operating temperature	-20° / +70° C
Housing protection	IP2X
Overall dimensions (mm)	50 x 32 x 20

### 3 - LAYOUT AND CONNECTIONS



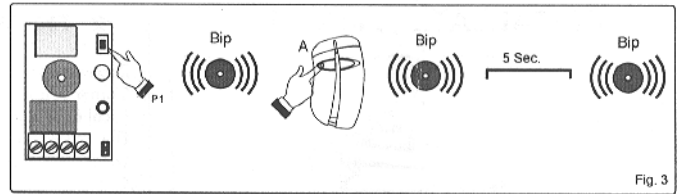
#### POWER SELECTION



## 4 - TX PROGRAMMING

### 4.1 Using P1

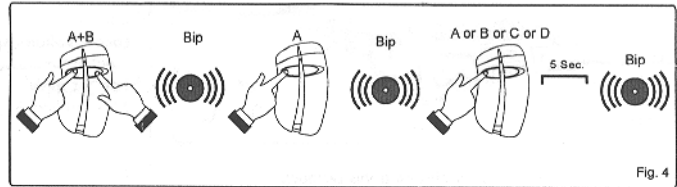
- 1) Keep P1 pressed down until the buzzer emits a short beep (Fig. 3);
- 2) Push the key of the transmitter to memorize and verify the beep of the receiver;
- 3) At this point, the receiver waits for more transmitters – 5 seconds after the last transmitter memorized, the receiver makes a beep and the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



### 4.2 Without P1

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

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



**NOTE:** The memorization of a new transmitter can be done only using a transmitter already memorized.

Use the transmitter already memorized to open the memory (Step 1 and 2).

Complete the procedure by pressing the key of the new transmitter to memorize.

## 5 - MEMORY FULL

If the memory is full, when you try to memorize a new transmitter the buzzer beeps 3 times.

## 6 - MEMORY ERASURE

### 6.1 Single transmitter

- 1) Push P1 until the beep of the buzzer, then release it;
- 2) Push the key of the transmitter to delete until the beep of the buzzer.

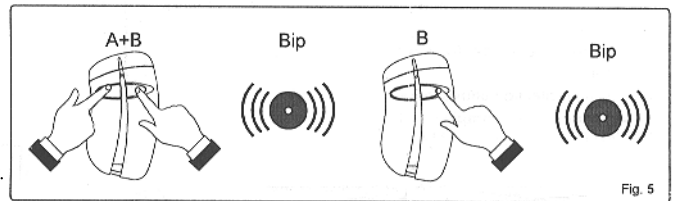
### 6.2 Full Memory erasure

- 1) Push P1 until the beep of the buzzer, 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

It's possible to program the receiver to make a beep at each relay activation. Follow this procedure:

- 1) Press simultaneously the keys A + B of a transmitter already memorized.
  - 2) Release and press the key B of the transmitter to the beep.
- For the beep disabling, repeat the above procedure.



## WARRANTY

The warranty period of this product is 24 months, beginning from the manufacturing date. During this period, if the product does not operate correctly, due to a defective component, the product will be repaired or replaced at the sole discretion of the producer. This warranty does not extend to the receiver case which can be damaged by conditions outside the control of the producer. **NOTE:** This product belongs to the electrical and electronic appliances within the Annexed 1A of the European Directive 2002/96/CE (RAEE). Do not discard with household refuse. Use the disposal methods in compliance with local regulations.

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