# Overview

Transmitters allow you to manage 1 group or 6 group of automation, with or without control of climate sensor. Every group is formed by three different channel. By channel we mean a different code and not different frequency bands.

All models have exactly the same circuit while the number of push buttons.

They are powered by two 1.5V-alkaline battery AAA (included).

## **Description of the product**

### All the transmitters

The circuit consists of:

- The Q3 transistor that works like an oscillator; the signal taken from its collector passes through the C15-L2-C18 filter and reaches the Loop type aerial, engraved on a printed circuit, providing a guarantee of stability as regards its characteristics and, consequently, the complete lack of calibrations. The SAW1 Resonator guarantees the exact oscillation frequency.
- The code is generated by the integrated circuit IC1 and consists of a train of 74 pulses lasting 114 ms followed by a pause of another 18 ms; as the code is the "Rolling Code" type, it changes each time the push button on the remote control is pressed.

### **Technical specifications**

#### Transmitters

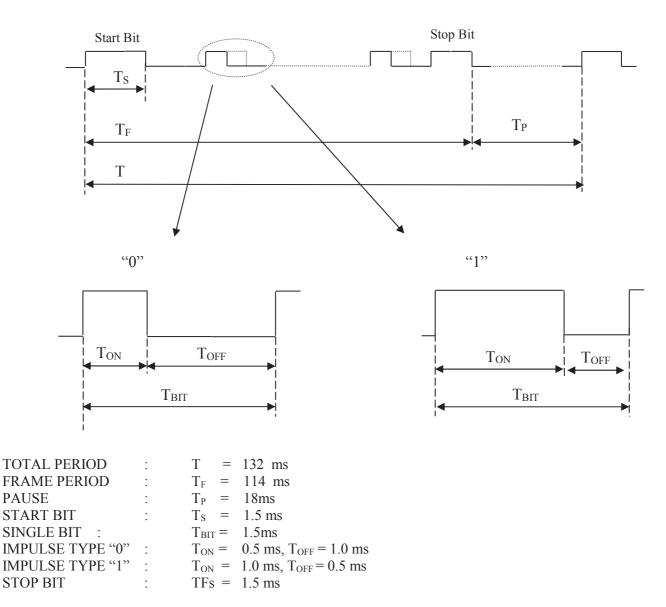
Working temperature: from -10°C to +55°C

Center frequency:  $433.92 \text{ MHz} \pm 100 \text{KHz}$ 

Modulation: AM-OOK wide band

#### Duty Cycle in 100 ms calculation (worst case):

Code: A train of 74 pulses lasting 114 ms followed by a pause of 18ms.



Then the 100 ms worst case (WC) is

DC = ON TIME<sub>WC</sub>/ 100 ms = ((1.5 + 1\*65)/100) = 0.665

20 LOG(DC) = - 3.5 dB (correction factor)