
Overview

The "**VERY VR**" transmitter used to open gates, works on the 433.92 MHz band and has two buttons. It is powered by two 3V-lithium batteries placed in series to provide a total of 6V (included).

The "**VERY VE**" transmitter used to open gates, works on the 433.92 MHz band and has two buttons. It is powered by two 3V-lithium batteries placed in series to provide a total of 6V (included).

Description of the products

VERY VR

The circuit consists of:

- The Q1 transistor that works like an oscillator; the signal taken from its collector passes through the C4-L2-C12-C13 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 55 pulses lasting 82.5ms followed by a pause of another 18ms; as the code is the "Rolling Code" type, it changes each time the push button on the remote control is pressed. Decoder Clock operation is guaranteed by a RC.
- The Q2 transistor, used as an AM-OOK modulator, switches the oscillator circuit on and off.
Two 6Vdc lithium batteries power the circuit. There is also a battery testing circuit that prevents the circuit from working with a flat battery.

VERY VE

The circuit consists of:

- The Q1 transistor that works like an oscillator; the signal taken from its collector passes through the C4-L2-C12-C13 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 13 pulses lasting 25ms followed by a pause of another 25ms.
Decoder Clock operation is guaranteed by a RC.
- The Q2 transistor, used as an AM-OOK modulator, switches the oscillator circuit on and off.
Two 3Vdc lithium batteries power the circuit. There is also a battery testing circuit that prevents the circuit from working with a flat battery.

Technical specifications

TRANSMITTERS

Center frequency: 433.92 MHz $\pm$ 100KHz

Modulation: AM-OOK wide band

VERY VR

Code: A train of 55 pulses lasting 82.5ms followed by a pause of 18ms. The first bit lasts 1.5ms followed by a pause of 1.5ms; the duration of 52 bits depends on how the code and channel are set.

When these bits are "1" they will last 1ms followed by a pause of 0.5ms.

When these bits are "0" they will last 0.5ms followed by a pause of 1ms.

The last bit lasts 1.5 ms.

VERY VE

Code: A train of 13 pulses lasting 25ms followed by a pause of another 25ms. The first bit lasts 0.66ms followed by a pause of 0.66ms; the duration of the remaining 12 depends on how the code and channel are set.

When these bits are "1" they will last 1.32ms preceded by a pause of 0.66ms.

When these bits are "0" they will last 0.66ms preceded by a pause of 1.32ms

Working temperature: from -20°C to +55°C