



TECHNICAL DESCRIPTION

MODEL 45130 GARAGE DOOR SENSOR

DESCRIPTION

The transmitter is a low-power communication device operating at frequency 318MHz. The signal is a digital coding modulated transmission, which transmitted data to a receiver. This digital coding provides different patterns by proprietary micro-controller (U1).

FUNCTION

The micro-controller (U1) detects the state of the reed switch (SW2) in either open or closed to activate the transmission.

The digital modulator is employed in the proprietary micro-controller (U1), which sends encoded digital data. The capacitor (C15 and C16) and ceramic resonator (Y1) established the clock rate of 4MHz.

The output data from the proprietary micro-controller (U1) drives an oscillator that the transistor (Q1) and associated components (C2, C4) controls the frequency of oscillation. Frequency of oscillation is controlled by a high-Q SAW resonator (Y2) of frequency 318MHz.

The inductive load is configured on the PCB as the principle radiating element which similar to an elementary dipole. Resistor (R31) in conjunction with the base bias circuit (R2) regulates the power output of the transmitter.

The unit operates from a Lithium battery of 3V.

Warning: Changes or modifications to this unit not expressly approved by the party responsible of compliance could void the user's authority to operate the equipment.