

3-stage On/Off Remote with EEPROM – Receiver Technical Description

The receiver is operated by AC120V. It consists of several parts, including Input Stage Antenna (ANT), R.F. Amplifier (Q1), Demodulator (Q2), Amplifier (U1-A), Comparator (U1-B), Remote Control Decoder (U5), Driver(Q3, Q4, Q5, Q6, Q7, Q8), Output Stage (K1, K2, K3) and Power Supply (R1, R1A, R1B, C1A, ZD1 & U3).

When a signal is received through the antenna, the Input Stage, it will pass through the R.F. Amplifier and Demodulator to remove the carrier frequency. Then the signal will go through the Amplifier and the comparator to retrieve the original encoded signal. The Remote Control Decoder (MCU) will decode a correct signal to make or break the relay contacts through the Driver in order to open or close the relay in the Output stage.