

123-12312

Technical Description of EX220 transmitter

EX220 is a RF remote transmitter which is used for the garage door opener & car alarm application. The transmission is through the radio frequency 433.9MHz This transmitter must be operate with a matched receiver (our ER294).

This transmitter have 6 major functional blocks as per Block Diagram on above. They are :

1. Battery - 9V battery to provide the power for whole unit.
2. Switch - is used to enable transmission & supply power to other blocks.
3. Regulator - is used to maintainance a stable & regulated power source to other blocks.
4. Encoder - is used to generate a 41bits code to transmitter. This 41 bits code is used for identify which transmitter is the matched transmitter.
5. Transmitter - It is an amplitude modulation (on/off key) transmitter in 433.9MHz
Q1,X1 The 41 bits code will be modulated with the carrier of 433.9MHz by this transmitter & transmit out via the antenne.
6. Antenna - is used to radiate the RF (radio frequency) signal from transmitter to receiver.