

Operational Description

The car alarm transmitter is a low powered, Unit for remote controlling the car start features. The transmitter is powered by a 12 volt battery. It is designed to operated on a single fixed frequency at 433.92 MHz. See the attached block diagram and schematic.

There are 3 buttons trigger the integrated circuit (IC1) which produces the digital control signals and will modulate the carrier signal. The carrier signal is generated by a crystal oscillator/ amplifier circuit comprised of a 433.92 MHz crystal (XTAL) and a npn transmitter (TR1). The modulated output of the RF amplifier stage is coupled to the PCB strip antenna. The coupling network comprised of C6, C4 and C5. The strip antenna is attached on PCB permanently around 30mm.

The transmitter is manually operated by the buttons pushed and will automatically deactivate instant after the button being released. This feature is incorporated by the IC1 internally.

All tuning and verification are performed by the manufacture and there are no adjustments can be made by the user. No external ground is required or used with this transmitter.