

**k180 4CH CODE HOPPING UHF REMOTE WITH 4 LIMIT/RESET INPUTS**

K180 is designed to operate 1-4 relays (with individual reset) via a pre-built Key-fob UHF remote control.

**CONSTRUCTION**

Construction is easy and it is best to start with the lowest components first. With single sided PCBs it is important to make sure that the components are flat on the PCB. Components that are raised up off the board if bumped can push the solder pads or tracks off the back of the board. Finally fit the UHF module (check for the correct orientation) then solder the leads.

**BASIC DESCRIPTION:**

Encoded signals from the Key-fob transmitter are received by the UHF receiver module and decoded in to 1 of 4 outputs, each of these outputs drive a relay and indicating LED via the ULN2003 and a 4013 IC. The 4013 is a "flip/flop" IC & it's output toggles with each pulse received from the receiver module. To use the momentary setting the IC is bypassed by placing its jumper in the "M" position. To set each output to momentary or latching place jumpers in the positions on the PCB marked "M" or "L" on J1, J2, J3 or J4 In the "M" position operation of that channel will be momentary (only on while the transmitter button is held) In the "L" position operation of that channel will be latching (turn on with the first press of a transmitter button and off with the second press). Each relay has an input (connected to CN1 and CN2 as shown) for external limit or reset switches etc. to turn off that relay when a limit is reached. This feature is Ideal for door or gate motors. To setup the receiver to work with the transmitter supplied or any additional transmitters press the "LEARN" button on the receiver kit then during the next 15 seconds press button #1 on the transmitter. Repeat this process for each other transmitter to be used.



