

## LM-312M Circuits Descriptions

1. AC power pass through AC Module, converting AC power as DC power (12V), then being converted as DC 5V via 78L05, to supply M board & T board. The circuit protection part of power board is a fuse for current overload, & surge absorbers deployed at Hot & Load line to prevent sudden surge impact. When the 1<sup>st</sup> second of switch ON, the TRIAC bears the big current then the relay take over to prevent the surge directly strike down the relay.
2. There are 3 ways to control the loading line:
  - a.) Touch the capacitive sensing zone on T board to control.
  - b.) Use an RF remote controller to transmit a series of specific digital radio frequency code to the receiver of the switch & the MCU decides to turn ON/OFF the loading end
  - c.) Use traditional 2-ways switch to control LC-31xM via the 2 yellow wires' connection.