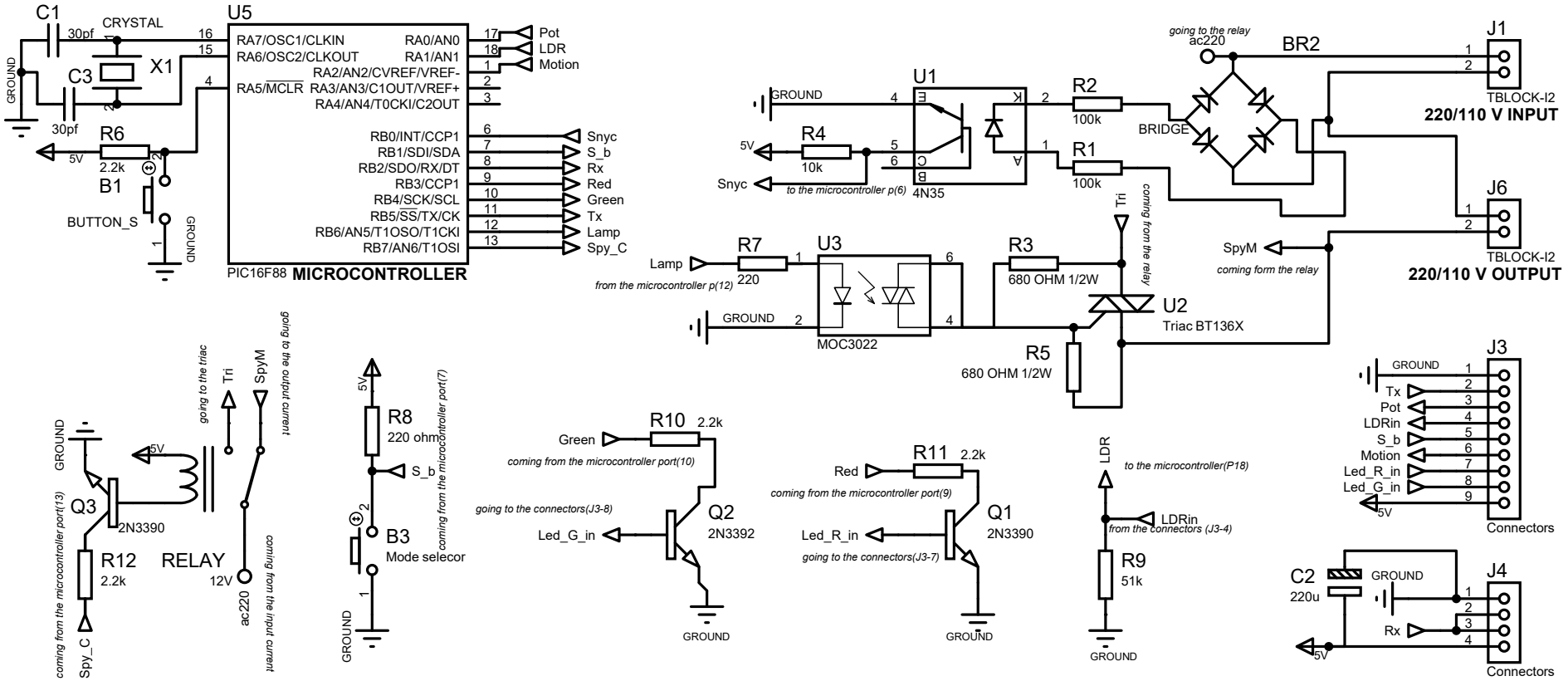

Relay

In a no-active relay state, it allows the the lamp to operate as there is no system.
In an active state it lets the current to flow to the triac and allows the microcontroller to take controle.
activated by calling OUTPUT_HIGH(PIN_B7);
on multifunctiondimmer.c

Mode Selector

Long button press will change the mode in this project.
We have 7 modes.
changed by incrementing modeSelector on multifunctiondimmer.c

LED light indicateur (green)

it indicates the selected mode activated from the microcontroller by calling OUTPUT_HIGH(PIN_B4);
on multifunctiondimmer.c
then the signal will cause the ground to flow (Led_G_in) through the connectors to the LED. The LED light should be connected to the positive volt through a resistor and then the ground will light it up.

LED light indicateur (red)

Same as the green activated from the microcontroller by calling OUTPUT_HIGH(PIN_B3);

LDR (Light sensor)

Photoresistor LDR
the sensor should be connected to the positive and the other pin schould be connected to the LDRin then it will be read as an analog signal and converted to digital by calling the adc(1) function on multifunctiondimmer.c

Connectors

Connecting the controls and sensors, controls need to be separated for your safety.

The J4 connectors are for connecting radio receiver in order to communicate with the device wirelessly through a baud rate of 1200.
please refer to the API control on the multifunctiondimmer.c

Labels with the same name are connected