

Updates:

Brains: (now 6 brains in total)

The mill light turns ON if it is OFF if rotary switch 1 transitions from “off” position but does not turn OFF when rotary switch 1 is in “off” position. Also, it will not stay ON if the screen toggle button is pressed-not persistent. Finally, the control button can toggle the light’s state when rotary switch 1 is in either “off” position or position 5. All other functions remain the same.

Circuit:

The amplifier was drawing 230+mA during silence and becoming quite warm. The circuit was simplified into a cruder but more energy efficient design that does not draw any current during silence.

μcontroller code:

8 more lines have been added to put the μcontroller to sleep when rotary switch 1 is in “off” position to optimize energy efficiency.