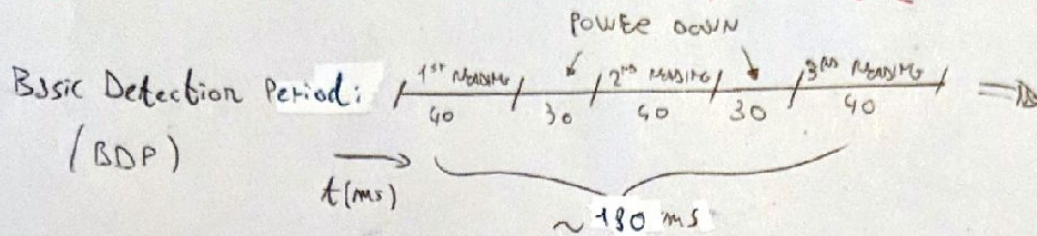


DETECTION CYCLE OPTIONS V2

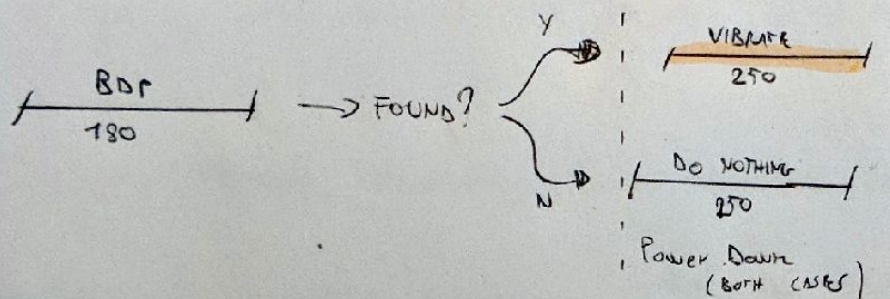


IN THE CURRENT VERSION, THIS CYCLE OUTPUTS A BOOLEAN VARIABLE.

THIS IS THE MAX ESTIMATION:
ACTUAL LENGTH DEPENDS ON THE DISTANCE FOUND. 40 MS IS CALCULATED ASSUMING NO OBSTACLE IS FOUND.

(MORE COMPLEX DETECTION MIGHT BE IMPLEMENTED, SUCH AS: IF POSITIVE, OUTPUT AN AVERAGE OF ALL THE POSITIVES)

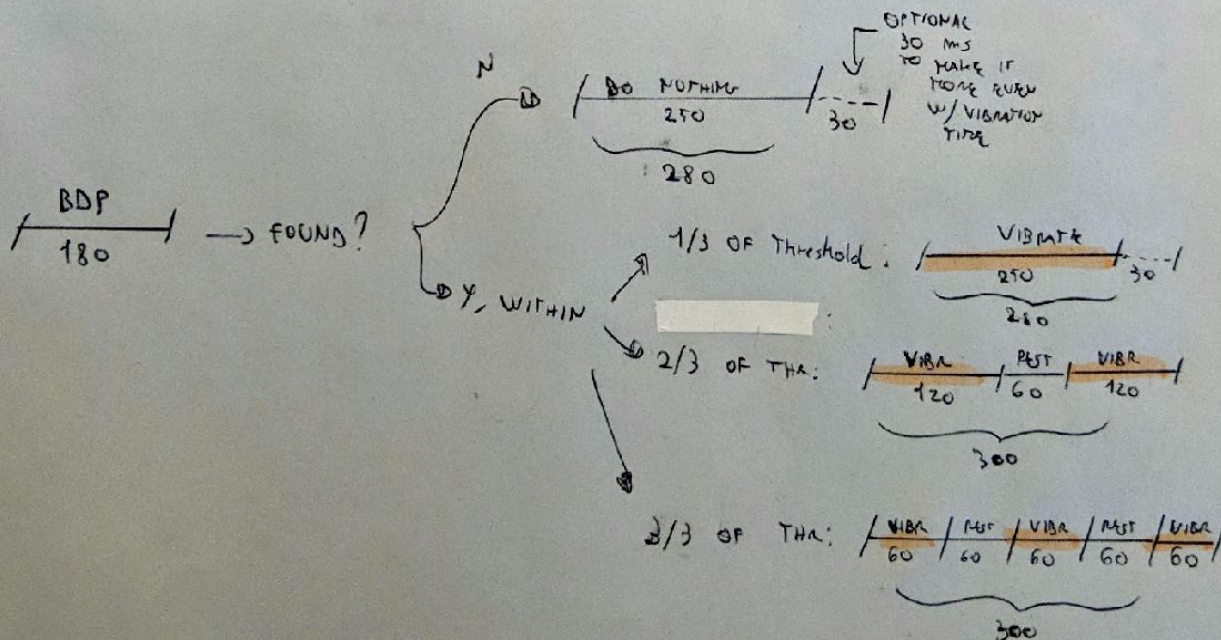
Option A: CONSECUTIVE BOOLEAN VIBRATION



CYCLE DURATION: $\sim 430 \text{ ms}$

VIBRATION TIME (IF ANY): 250 MS

Option B: CONSECUTIVE VARIABLE VIBRATION

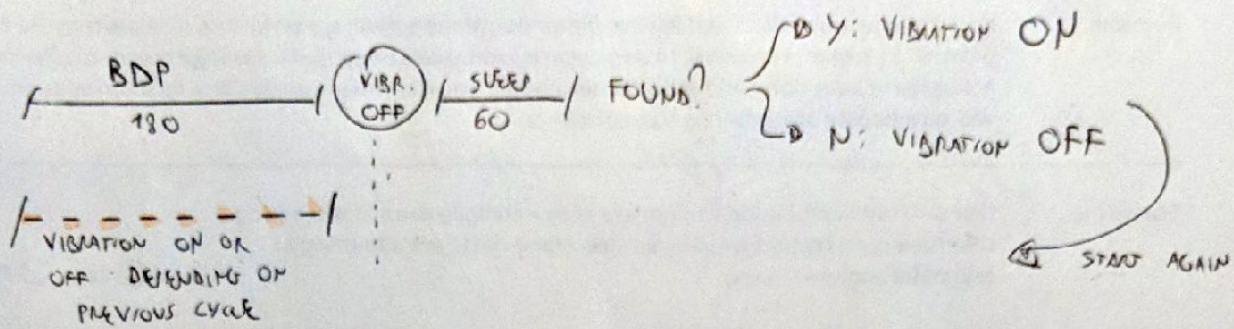


CYCLE DURATION: $460 \text{ ms} \div 480 \text{ ms}$

VIBRATION TIME: $280 \text{ ms} \div 300 \text{ ms}$

Option C: "PARALLEL" BOOLEAN VIBRATION

THE OUTPUT OF A CYCLE TAKES PLACE DURING THE NEXT ONE (VIBRATION & DETECTION DONE IN PARALLEL)



CYCLE DURATION: 240 ms

VIBRATION TIME, IF ANY: 180 ms (MAX, DEPENDS ON DETECTION TIME)

Option D: PARALLEL, INTERRUPT-DRIVEN VARIABLE VARIATION (OF DOOR)

