

attaching a white sticker suitably at the bottom of the laptop.

Calibrate the circuit before first use. Set preset VR1 at the centre and place the laptop in the docking station. Now turn VR1 slowly until IC2 goes to standby (no-oscillation) mode. Then

remove the laptop from the docking station, ensure that IC2 is enabled (pin 12 is low) and wait for the alarm sound. Repeat the process and adjust VR1 until you get the correct result. Note that the LED in the opto-sensor is permanently powered via resistor R2.

Similarly, you are free to experiment with the values of IC2 timing components C5, R3 and R4 for increasing or decreasing the delay time.

EFY note. During testing at EFY Lab, we used CX sensor from OMRON in place of CNY70. ●