

### Discussion1

- ♦ In this lab, potentiometer is an analog sensor. Are there other sensors that can also be used to control the blinking frequency of LED?

Ans: 光敏電阻、熱敏電阻

### Discussion 2

- ♦ What is the maximum cycle time (hint: sensor value) that you can get? Is it the same as the value given in the spec (0~1023)?

Ans: 我所測試出來的最大值是 1021，所以 maximum cycle time 為 2042ms。  
最後我所測出來的範圍值是 6~1021 與 spec (0~1023) 不一樣。

COM6	COM6
Maximum	Minimum
1021	6
1021	6
1021	6
643	6

### Discussion3

- ♦ What may happen if we don't use the constrain() to constrain the sensor value.
- ♦ Try to identify the input range of photocell sensor, i.e., the max value and min value of the photocell in Lab. 3.

Ans: 如果不用 constrain，當 map 的範圍超出最大值或最小值，則會取出不在限制範圍內的數值。最後我所測出來的最大值是 1336，最小值是 -1378。

COM6	COM6
Maximum	Minimum
1336	-1378
1336	-1378
1336	-1378
1336	-1378