

Lighting Solution : Microwave Sensor LED Tube



Tailor-made high-efficiency optimization solution
Improve energy system application efficiency



Traditional Lighting System



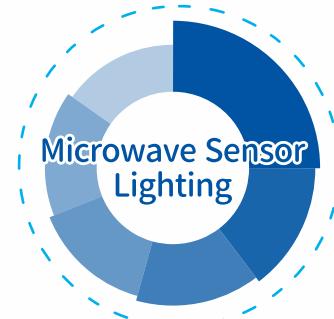
Traditional

Whether or not there is someone, the 24-hour long light is a waste of energy.

Fluorescent lamps contain a large amount of mercury vapor, which is harmful to human health and pollutes the environment if the lamp tube is broken.

Short service life and high replacement frequency in the later stage.

Microwave Sensor Lighting System



Reduced energy consumption
after optimization

Equipped with a built-in microwave sensor, the effective sensing detection range can reach 8 meters.

Green environmental protection: no use of mercury, and no ultraviolet, infrared radiation.

The sleep brightness and delay time can be customized as needed, making it more energy-efficient and power-saving.

The sensing time is precise and sensitive. When triggered within the sensing detection range, the lamp immediately lights up at 100% brightness.

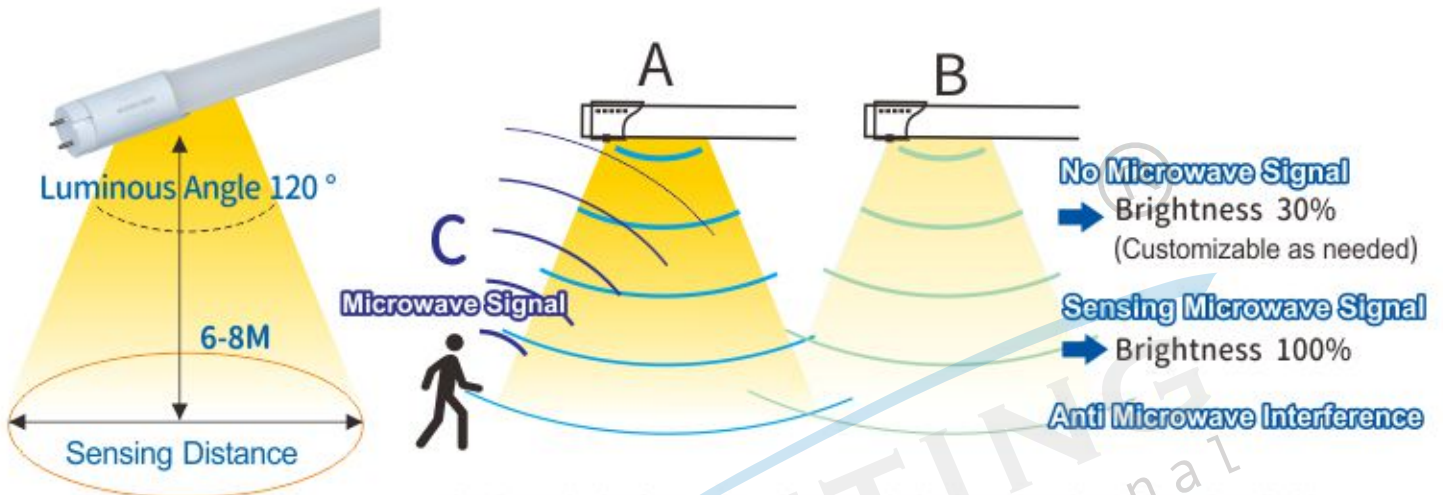
Pedestrians, vehicles, and other moving objects can be sensed.

Easy installation and maintenance: Simply replace the original lamp tube without changing the lamp bracket or wiring, saving time and efficiency!

The average life of 50,000 hours, durable, greatly reduce the frequency of replacement.

Improvement

系統原理 System Principle



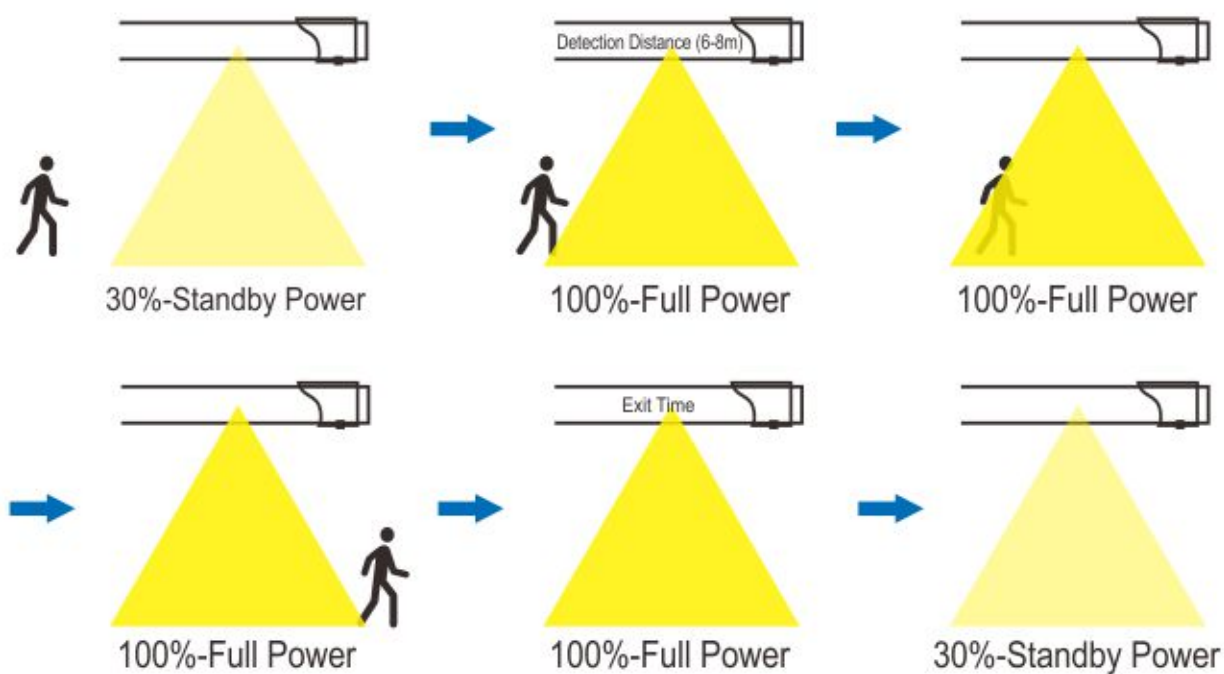
As shown in the figure, the microwave induction tubes A and B are installed in close proximity. B will not be affected by the signal of A, but will only react to the microwave signal C.



1
Taking 4 feet and 18W as an example
When a signal is detected within the sensing detection range, the lamp tube immediately lights up at 100% brightness and outputs 18W at full power.

2
Without receiving the signal, after 30 seconds (customizable), the light tube automatically adjusts to 30% brightness (customizable), and the power is around 5W, thereby reducing energy consumption and achieving energy-saving goals.

3
Microwave signals are continuously sensed within the detection range, and the lamp is continuously illuminated at full power.



微波感應燈管解決方案

Solutions To Microwave Sensor LED Tube



量身定製高效能優化方案 促進能源系統應用效率提升

Tailored to provide efficient optimization solutions. Promote the application efficiency of energy system



傳統的照明



優化前耗能

(1) 無論是否有人, 24小時長亮, 能源浪費。

(2) 熒光燈中含有大量的水銀蒸汽, 假如燈管破碎水銀蒸汽對人體有害且污染環境。

(3) 壽命短, 後期更換頻率高。



微波感應照明系統



耗能降低

(1) 內置微波感應器, 有效感應探測範圍可達8米。

(2) 綠色環保: 不使用水銀, 且無紫外線, 紅外光等輻射。

(3) 休眠亮度、延時時間可按需定制, 更節能省電。

(4) 感應時間精確, 感應靈敏, 當感應探測範圍內被觸發時, 燈管立即100%亮度點亮。

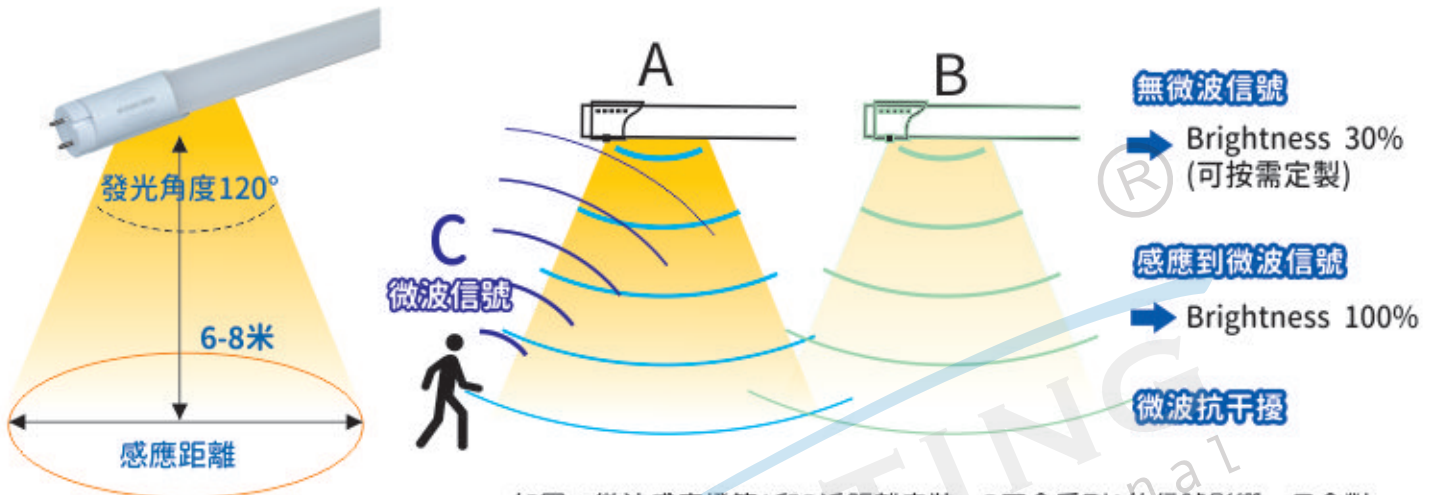
(5) 不僅可以感應行人, 也能感應車輛等其他運動物體。

(6) 安裝簡易, 維護簡便: 只需直接更換原有燈管, 不需要更換燈支架及改變線路, 省時高效!

(7) 壽命長: 平均壽命達50000小時, 堅固耐用, 大幅降低更換頻率, 減少人工費用。

優化

系統原理 System Principle



如圖：微波感應燈管A和B近距離安裝，B不會受到A的信號影響，只會對微波信號C作出反應。



1
(以4尺18W為例)
當感應探測範圍內感應到信號時，燈管立即100%亮度點亮，滿功率輸出18W。

2
沒有接收到信號，經過30秒(可定制)後，燈管自動調到30%亮度(可定制)，這時功率在5W左右，從而降低能耗達到節能目的。

3
探測範圍內持續感應到微波信號，燈管持續全功率點亮。

