



## TUGE

### MICROWAVE SENSOR TUBE



T8 Pin-G13



T5 Pin-G5



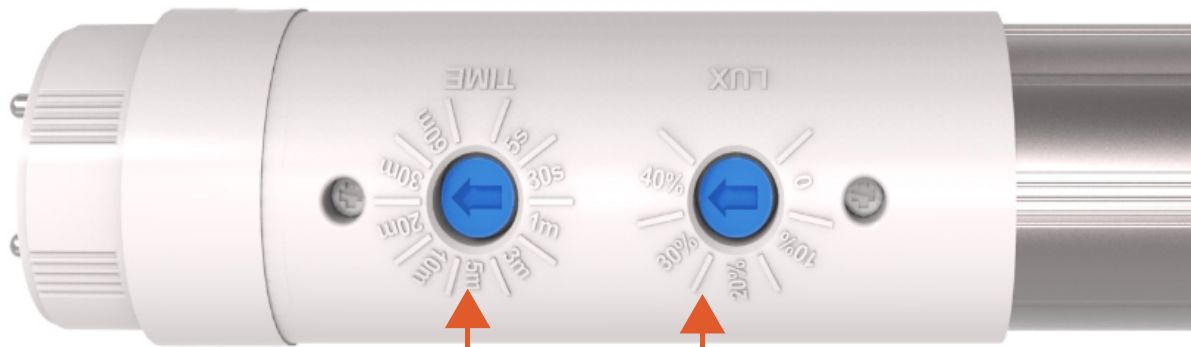
- Built-in MICROWAVE SENSOR in LED T8 Tube
- Sensor Detection Angle : 180x 360 deg
- Holding-Time DIP Switch Setting: 5s, 30s, 1M, 3M, 5M, 10M, 20M, 30M, 60M
- Stand-by Brightness DIP Switch Setting : From OFF to 40%
- End Cap Rotation : 90deg to adjust the light and sensor direction Maximum
- Detection Distance : up to 10 meter
- Saving 70% energy than traditional LED tubes

# MICROWAVE SENSOR TUBE



End Cap Rotation : +/-90deg

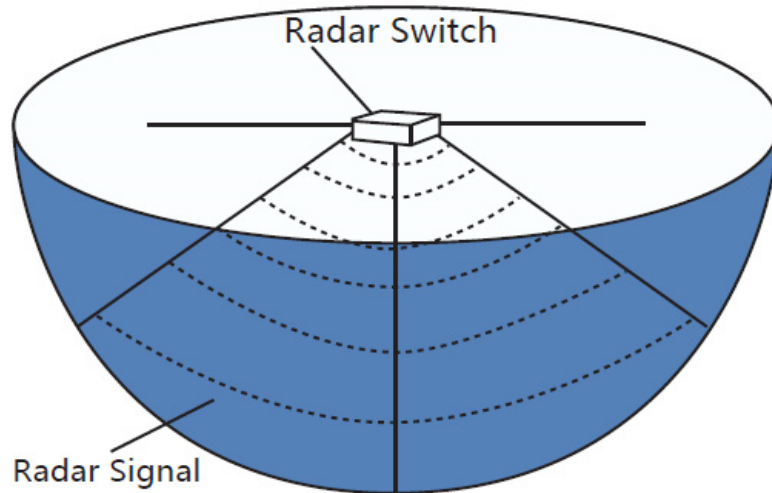
Microwave Sensor Detection Angle  
微波傳感器檢測角度



Brightness holding-Time Setting:  
亮度保持時間設置：








Brightness on Standby Setting:  
待機亮度設置

## SENSOR ANGLE



Sensing Range: 180 \* 360 °

## Technical Data

Cap base 燈腳 Base de la tapa	<ul style="list-style-type: none"> <li>• G13- T8 PIN</li> <li>• G5- T5 PIN</li> </ul>
Radiation frequency/ 輻射頻率/Frecuencia de radiación	5.8GHz±100MHz
Dimension-尺寸-Dimensión	• 2feet 3feet 4feet 5feet refer to drawing
Input Voltage-輸入電壓-Voltaje de entrada	AC100-240V 50/60Hz
Power Consumption Max-燈具功率 Consumo de energía Max	• 10W @2feet 15W@3feet 18W @4feet 23W @ 5feet
Emergency Mode 應急模式 Modo de emergencia	<p>2hours Battery Back up Maintenance type 2小時電池長明式 2 horas Bateria de respaldo Tipo de mantenimiento</p> <p>Testing Button and LED Signal Light 測試按鈕和LED信號燈 Botón de prueba y luz de señal LED</p> <ul style="list-style-type: none"> <li>• 2ft Emergency Batten L:610xW48xH50mm 1500mA Ni-MH 30% Brightness</li> <li>• 3ft Emergency Batten L:910xW48xH50mm 1800mA Ni-MH 30% Brightness</li> <li>• 4ft Emergency Batten L:1210xW48xH50mm 2500mA Ni-MH 30% Brightness</li> <li>• 5ft Emergency Batten L:1510xW48xH50mm 2800mA Ni-MH 30% Brightness</li> </ul> <p>And, Sensor is OFF during the Emergency Mode 並且, 在緊急模式下傳感器處於關閉狀態 El sensor está apagado durante el modo de emergencia</p>
Power factor 功率因數 Factor de potencia	PF > 0.90
TOTAL HARMONIC DISTORTION 總諧波失真 DISTORSIÓN ARMÓNICA TOTAL	THD < 20%
Brightness holding-Time Setting: 亮度保持時間設置: Ajuste de tiempo de retención de brillo:	<ul style="list-style-type: none"> <li>• 5s 30s 1m 3m 5m 10m 20m 30m 60m</li> <li>• s : second m: minute</li> <li>• DIP Switch 撥碼開關 Dip switch</li> </ul>
Brightness on Standby Setting: 待機亮度設置 Brillo en la configuración de espera:	<ul style="list-style-type: none"> <li>• OFF 10% 20% 30% 50%</li> <li>• DIP Switch 撥碼開關 Dip switch</li> </ul>
Microwave Sensor Detection Angle 微波傳感器檢測角度 Ángulo de detección del sensor de microondas	180°x 360°
Maximum Detection Distance 最遠檢測距離 Distancia máxima de detección	Up to 10 meter 最遠10米 hasta 10 metros
Beam Angle 光束角 ángulo de haz	120°
Light Source Brand-光源品牌-Fuente de luz de marca	TAIWAN Everlight SMD - ( Photobiological safety-IEC 62471 'Risk Group 1' (low risk) )
Photobiological safety-EN 62471 / of Luminaire 光生物安全檢驗(EN 62471) 結果: Seguridad fotobiológica-EN 62471	<ul style="list-style-type: none"> <li>• Exempt</li> <li>• 豁免(無危險)</li> <li>• Eximir</li> </ul>
"Lumen Maintenance LM-80 Reported by TM-21"25°C	• L90(10k) = 50,700 hrs L80(10k) > 63,500 hrs L70(10k) > 63,500 hrs
Color Rendering Index-顯色指數 Índice de reproducción cromática	> 80
MacAdam Ellipses Binning 麥克亞當橢圓分級 Mac Adam binning ellipse	Standard Deviation Colour Matching < 3 SDCM 標準偏差配色 < 3 SDCM Coincidencia de color estándar Desviación < 3 SDCM
Color Temperature -色溫 Temperatura del color	• 2700K / 3000K / 4000K / 5000K / 6500K
Luminaire Efficacy 燈具效率 La eficacia de la luminaria	• 110 Lm/w(2700K), 120 Lm/w(3000K), 130 Lm/w(4000K), • 135 Lm/w(5000K), 135 Lm/w(6500K),
LED Source Luminous Efficacy LED光源光效 Fuente luminosa LED Eficacia	• 130 Lm/w(2700K), 140 Lm/w(3000K), 150 Lm/w(4000K), • 155 Lm/w(5000K), 155 Lm/w(6500K),
Housing materials-外殼材料 Materiales de la carcasa	6063 Aluminum shell and Anti UV PC (polycarbonate) cover 6063鋁殼和抗紫外線PC 擴散罩 Carcasa de aluminio 6063 y cubierta de PC (policarbonato) anti UV
Housing Color外殼顏色color de la carcasa	Milky Diffuser 乳白色罩 Milky difusor
Operating Humidity -工作濕度 Humedad de funcionamiento	0~90%, non-condensing-不結霜 sin condensación
Ingress Protection-防護等級 Protección de ingreso	IP40
Comply Testing Standard 符合測試標準 Cumplir el estándar de prueba	LVD: IEC/EN 60598-1 / IEC/EN 60598-2-1/ IEC 62031 / IEC/ EN 62471/IEC TR62778 / EN60838-2-2 EMC : IEC/EN 61347-1; IEC/EN 61347-2-13; IEC/EN 62384; IEC/EN 61000-3-2; IEC/EN 61000-3-3;IEC/EN61574;EN 55015 IEC62384 ; IEC 62560:2011;IEC 62612; IEC 62766; IEC 62722-1 & IEC 62722-2-1; ROHS
Certification-認證-Certificación	      

Project	Fixture#	Date
		Firm

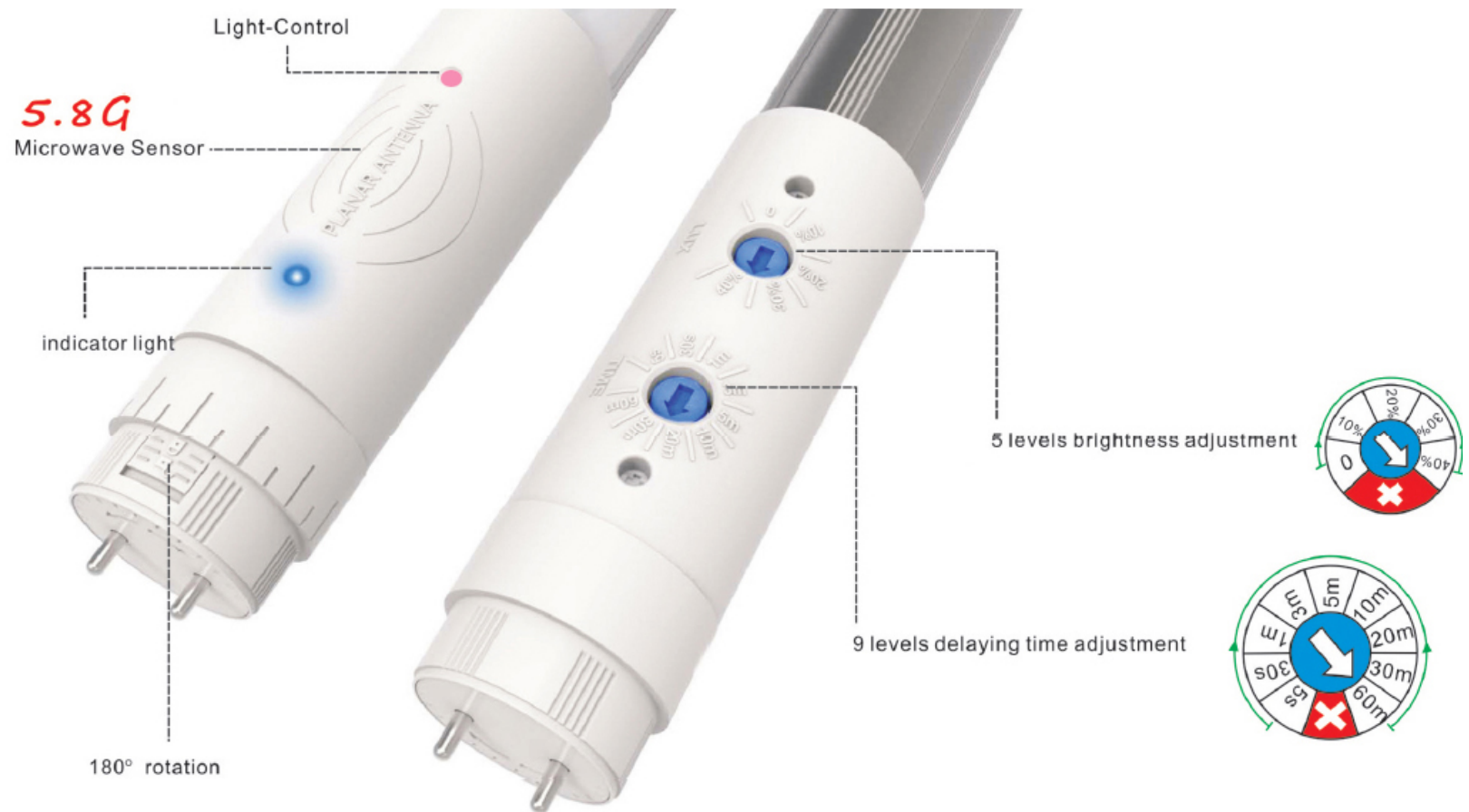
## Ordering Information

Choose the option that suits your need and write its corresponding code on the appropriate line to form the product code.

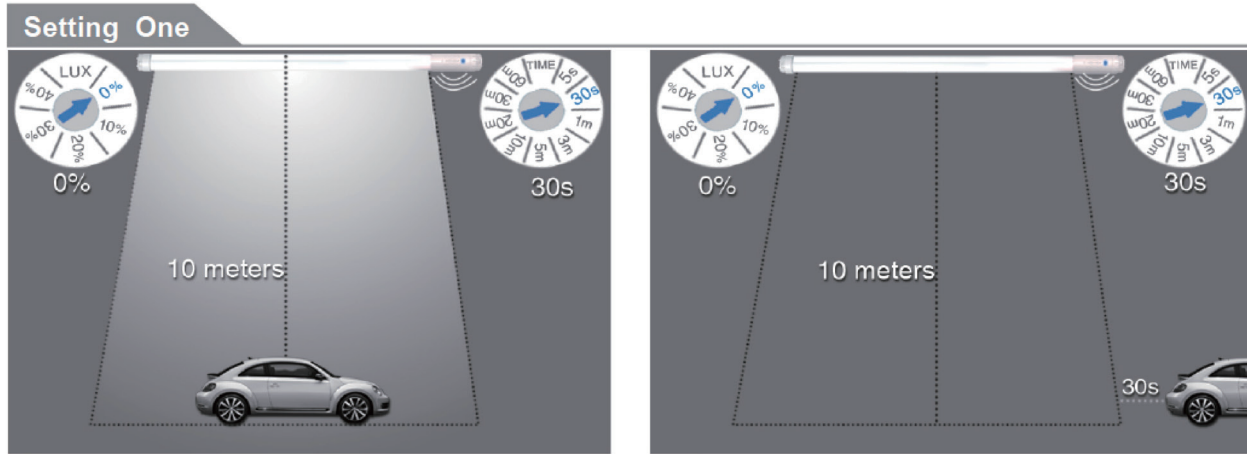
Example product code: [TUGE-23W](#)

TUGE - - \_\_\_\_\_  
Power Consumption

Power Consumption	
Code	Description
<a href="#">10W</a>	10W@2feet
<a href="#">15W</a>	15W@3feet
<a href="#">18W</a>	18W@4feet
<a href="#">23W</a>	23W@5feet

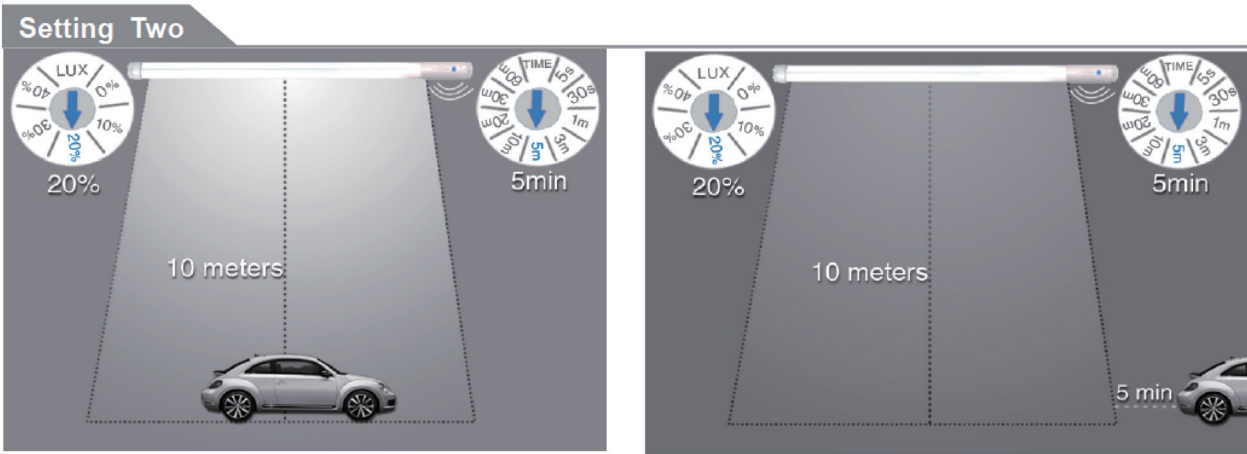


# FUNCTION SETTING



☆When object is in the detection area, sensor tube turns on.

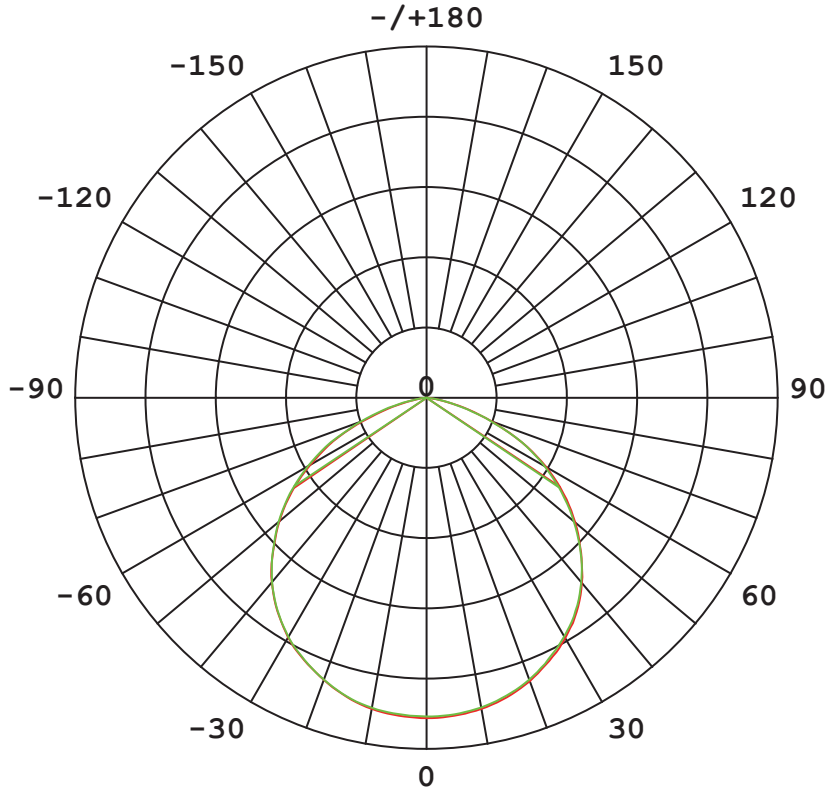
☆When object is away from detection area after 30 seconds, the tube will turn off.



★When object is in the detection area, sensor tube turns on.

★When object is away from detection area after 5 minutes, the sensor tube's brightness reduces to 20% and consumes 3.5 watts.

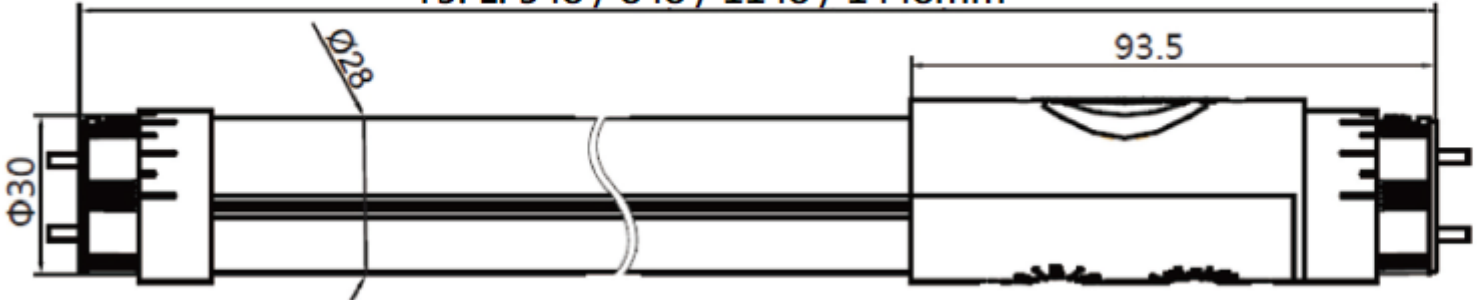
# BEAM ANGLE



Technical Drawing

T8: L: 600 / 900/1200/1500mm

T5: L: 548 / 848 / 1148 / 1448mm



T8 Pin-G13



T5 Pin-G5

Unit: mm

# Emergency Batten



- 2hours Battery Back up Maintenance type
- Testing Button and LED Signal Light

- 2ft Emergency Batten L:610xW48xH50mm 1500mA Ni-MH 30% Brightness
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