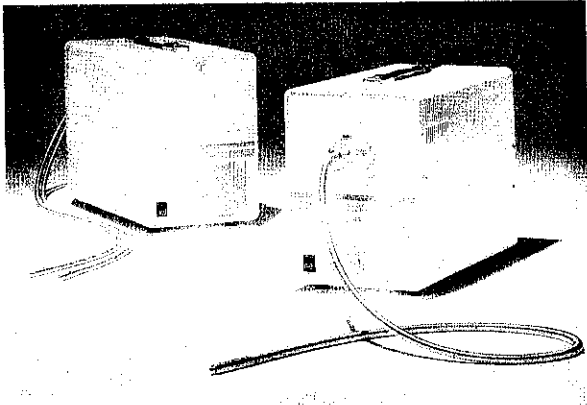




HAMAMATSU 浜松

獨家代理所有型號 UV 紫外光源器、配件和 X-光除靜電器及配件

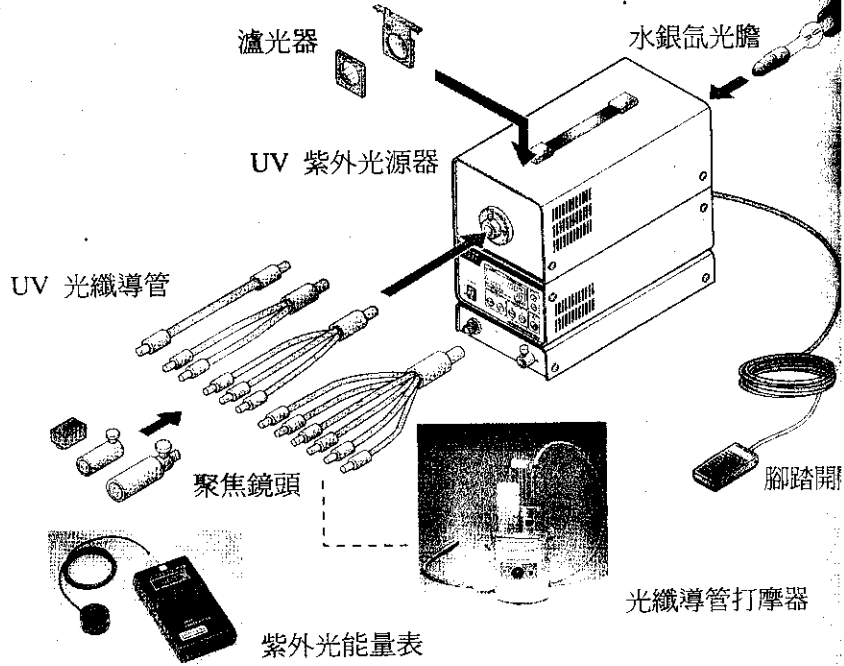
UV 紫外光源器



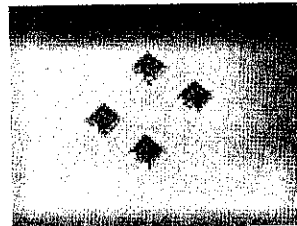
- 發出強勁紫外光 $3.500\text{mW}/\text{cm}^2$ (240-450nm)
- 容易操作
- 紫外光膽保用3000小時
- 有不同光纖配合不同需要 (1出1至1出9)

用途：祇需數秒快速接合 (需配合紫外光膠水)
 產品：光頭接合CD, CD-R, CD-RW, DVD, LCD, 光纖連接組件DWDM, 噴墨盒等....

UV 紫外光源器配件

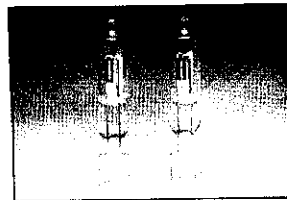


紫外光傳感器



G5842 UV Sensor (SMD)
 紫外光傳感器 (貼片)
 光譜感應範圍 (λ): 260 至 400nm
 外型尺寸 (mm): 6.5x4.0x1.5
 產品特點: 品質可靠、低亮度、
 可用於窄光譜感應、價格優惠
 適用於紫外線量度計、氣象預報器
 分析儀及電子鐘錶等

火焰感應器



R2868 Flame Sensor UV Torn
 R2868 UV 火焰感應器
 光譜感應範圍 (λ): 185 至 260nm
 外型尺寸 (mm): $\varnothing 9.0 \times 56.0$
 產品特點: 對紫外線及火焰高感
 體積小、角度寬
 適用於火焰探測器和火警預報器



使用Soft X-ray制做高密度負離子
 以除在生產過程中產生的靜電



- 無風
- 專用於無塵生產上
- 無電磁噪音產生

R2868 称为火焰发现者.在火星产生瞬间能够准确地发现, 并且对非可见光的高传输的电晕现象可以完全解除. Hamamatsu R2868 是利用紫外线 TRON 通过金属的光电效果和瓦斯乘法效果来发现火星源. 它可以探测 185 到 260 个不同的狭窄光谱敏感源.它对可见光完全没有感应,也不需要过滤器任何可见光(不像半导体探测器). 它具有很小的体积和很宽敏感角度(择向性),并能快速准确地发现从火焰被发出的弱紫外线.(能够探测 5 m 或在稍远处发现香烟点大小的火焰.)

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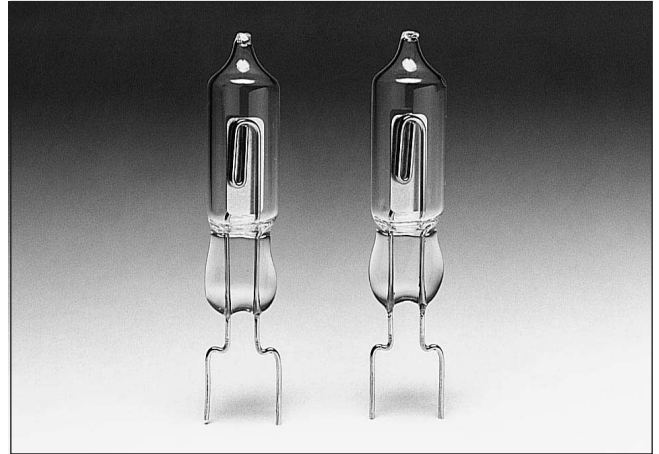
FLAME SENSOR UV TRON® R2868

Quick Detection of Flame from Distance, Compact UV Sensor with High Sensitivity and Wide Directivity, Suitable for Flame Detectors and Fire Alarms.

Hamamatsu R2868 is a UV TRON ultraviolet detector that makes use of the photoelectric effect of metal and the gas multiplication effect. It has a narrow spectral sensitivity of 185 to 260 nm, being completely insensitive to visible light. Unlike semiconductor detectors, it does not require optical visible-cut filters, thus making it easy to use.

In spite of its small size, the R2868 has wide angular sensitivity (directivity) and can reliably and quickly detect weak ultraviolet radiations emitted from flame due to use of the metal plate cathode (eg. it can detect the flame of a cigarette lighter at a distance of more than 5 m.).

The R2868 is well suited for use in flame detectors and fire alarms, and also in detection of invisible discharge phenomena such as corona discharge of high-voltage transmission lines.



APPLICATIONS

- Flame detectors for gas/oil lighters and matches
- Fire alarms
- Combustion monitors for burners
- Inspection of ultraviolet leakage
- Detection of discharge
- Ultraviolet switching

GENERAL

Parameters	Rating	Units
Spectral Response	185 to 260	nm
Window Material	UV glass	—
Weight	Approx. 1.5	g
Dimensional Outline	See Fig. 3	—

MAXIMUM RATINGS

Parameters	Rating	Units
Supply Voltage	400	Vdc
Peak Current ¹⁾	30	mA
Average Discharge Current ²⁾	1	mA
Operating Temperature	-20 to +60	°C

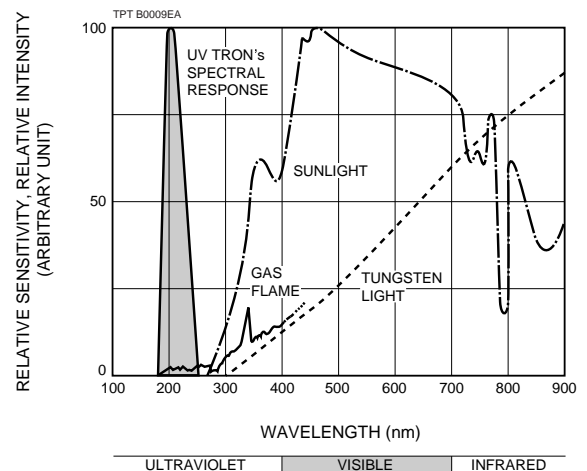
CHARACTERISTICS (at 25°C)

Parameters	Rating	Units
Discharge Starting Voltage (with UV radiation)	280	Vdc Max.
Recommended Operating Voltage	325±25	Vdc
Recommended Average Discharge Current	100	µA
Background ³⁾	10	cpm Max
Sensitivity ⁴⁾	5000	cpm Typ.

NOTES:

- 1) This is the maximum momentary current that can be handled if its full width at half maximum is less than 10 µs.
- 2) If the tube is operated near this or higher, the service life is noticeably reduced. Use the tube within the recommended current values.
- 3) Measured under room illuminations (approximately 500 lux) and recommended operating conditions. Note that these values may increase if the following environmental factors are present.
 1. Mercury lamps, sterilization lamps, or halogen lamps are located nearby.
 2. Direct or reflected sunlight is incident on the tube.
 3. Electrical sparks such as welding sparks are present.
 4. Radiation sources are present.
 5. High electric field (including static field) generates across the tube.
- 4) These are representative values for a wavelength of 200 nm and a light input of 10 pW/cm². In actual use, the sensitivity will vary with the wavelength of the ultraviolet radiation and the drive circuitry employed.

Figure 1: UV TRON's Spectral Response and Various Light Sources



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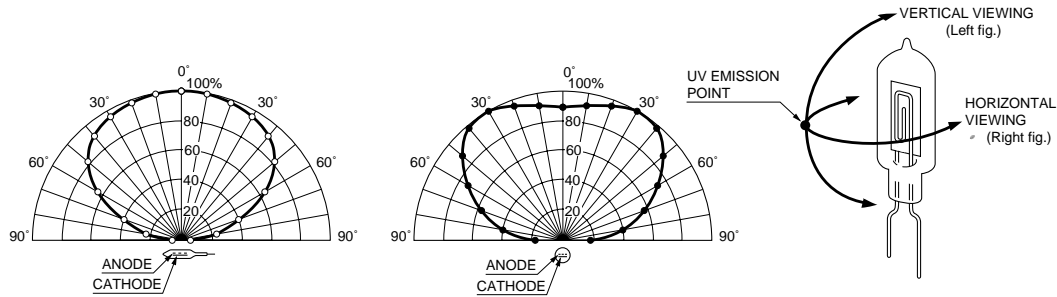
Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions.

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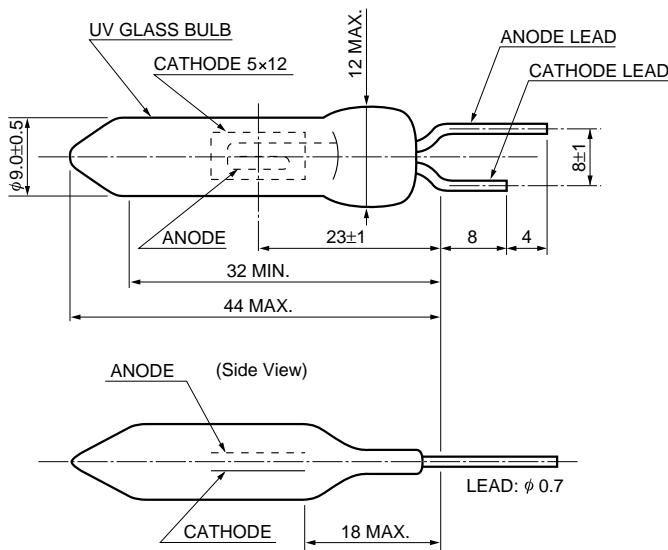
FLAME SENSOR UV TRON® R2868

Figure 2: Angular Sensitivity (Directivity)



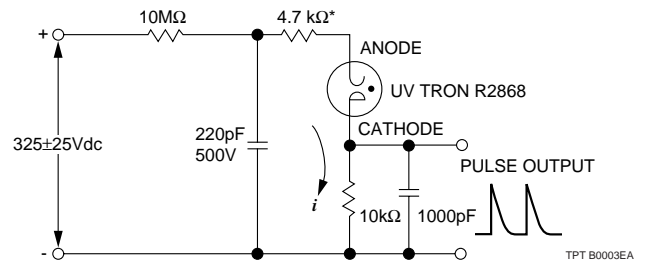
TPT B0010EA

Figure 3: Dimensional Outline (Unit: mm)



TPT A0024EA

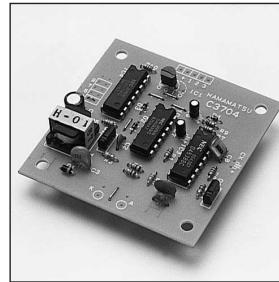
Figure 4: Recommended Operating Circuit



TPT B0003EA

* Be sure to connect the 4.7 kΩ resistor within 2.5 cm from the anode lead end of UV TRON.

● UV TRON Driving Circuit C3704 series (Option)



Hamamatsu also provide the driving circuit C3704 series for R2868 operation. C3704 series include a high voltage power supply and a signal processing circuit in printed circuit board, which allows to operate R2868 easily as a flame sensor with the low input voltage (DC 6 to 30 V) only. For the details, please refer to the datasheet of C3704 series.

PRECAUTIONS FOR USE

● **Ultraviolet Radiation**

The UV TRON itself emits ultraviolet radiation in operation. When using two or more UV TRONS at the same time in close position, care should be taken so that they do not optically interfere with each other.

● **Vibration and Shock**

The UV TRON is designed in accordance with the standards of MIL-STD-202F (Method 204D/0.06 inch or 10g, 10- 500Hz, 15 minutes, 1 cycle) and MIL-STD-202F (Method 213B/100g, 11ms, Half-sine, 3 times). However, should a strong shock be sustained by the UV TRON (e.g. if dropped), the glass bulb may crack or the internal electrode may be deformed, resulting in deterioration of electrical characteristics. So extreme care should be taken in handling the tube.

● **Polarity**

Connect the UV TRON with correct polarity. Should it be connected with reverse polarity, operating errors may occur.

WARRANTY.

The UV TRON is covered by a warranty for a period of one year after delivery. The warranty is limited to replacement of any defective tube due to defects traceable to the manufacturer.

HAMAMATSU

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North Europe: Hamamatsu Photonics Norden AB: Färögatan 7, S-164-40 Kista, Sweden, Telephone: (46)8-703-29-50, Fax: (46)8-750-58-95

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