



# UV Sensor Probe

## GUVA-S12SC-I8H3



### Features

- Single Supply Voltage, 4-20 mA Current Output
- Measure the UV Power from Sunlight

### Applications

UV Power Monitoring of Sunlight

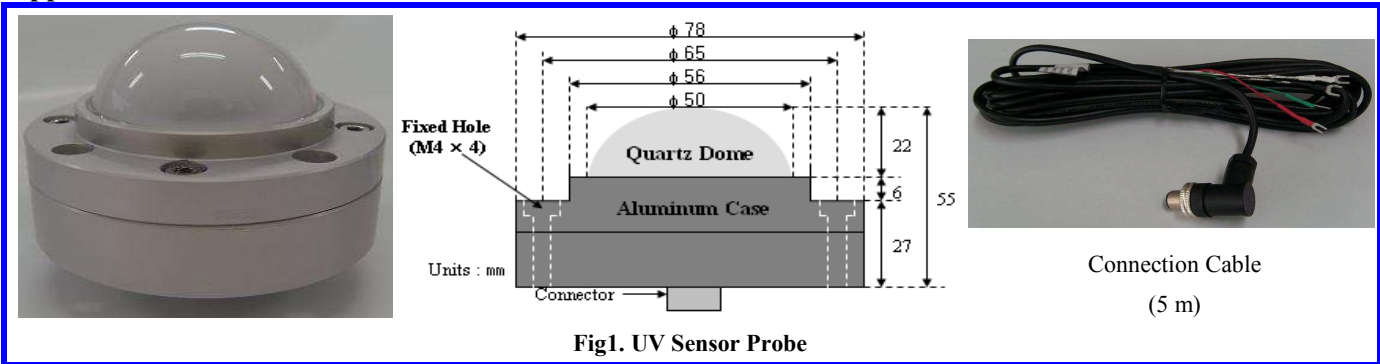


Fig1. UV Sensor Probe

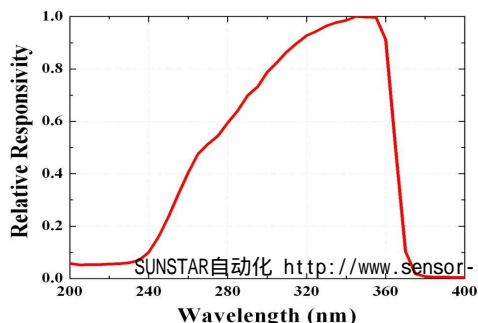
### Absolute Maximum Ratings

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T <sub>st</sub>	-40		90	°C	
Operating Temperature	T <sub>op</sub>	-30		85	°C	

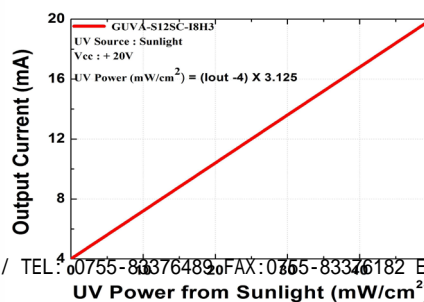
### Electro-Optical Characteristics (at 25 °C)

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V <sub>cc</sub>	9		24	V	DC
Offset Current	I <sub>Q</sub>	3.9	4	4.1	mA	
Spectral Detection Range	$\lambda$	240		370	nm	10% of Max.
Output Current	I <sub>out</sub>	4		20	mA	
Detection Power Range	P	0		50	mW/cm <sup>2</sup>	
Response Time	T		10		ms	
Load Resistor	R <sub>L</sub>			500	$\Omega$	

### Relative Responsivity



### Output Voltage along UV power



$$\text{UV Power (mW/cm}^2\text{)} = \frac{I_{out} \text{ (mA)}}{3.125}$$

$$I_{out} \text{ (mA)} = \text{UV Power (mW/cm}^2\text{)} \times 3.125$$