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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

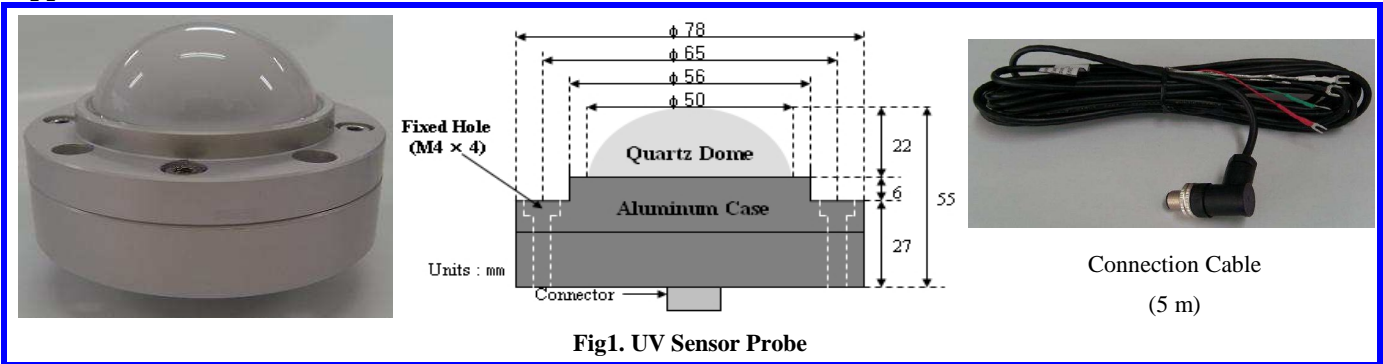


Fig1. UV Sensor Probe

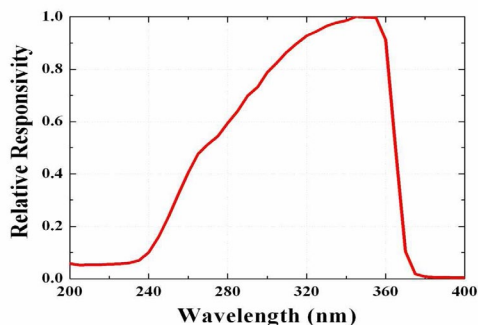
Absolute Maximum Ratings

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T _{st}	-40		90	°C	
Operating Temperature	T _{op}	-30		85	°C	

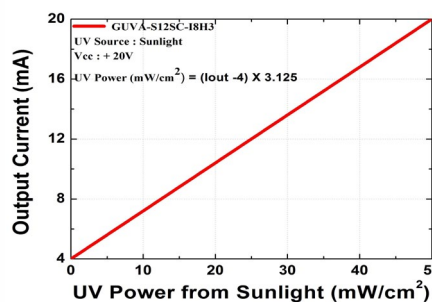
Electro-Optical Characteristics (at 25 °C)

Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V _{cc}	9		24	V	DC
Offset Current	I _Q	3.9	4	4.1	mA	
Spectral Detection Range	λ	240		370	nm	10% of Max.
Output Current	I _{out}	4		20	mA	
Detection Power Range	P	0		50	mW/cm ²	
Response Time	T		10		ms	
Load Resistor	R _L			500	Ω	

Relative Responsivity



Output Voltage along UV power



$$\text{UV Power (mW/cm}^2\text{)} = [\text{Iout (mA)} - 4] \times 3.125$$