



Electro Optical Components, Inc.

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UV Sensor Probe

GUVx-T1xGC-3LO1



Features

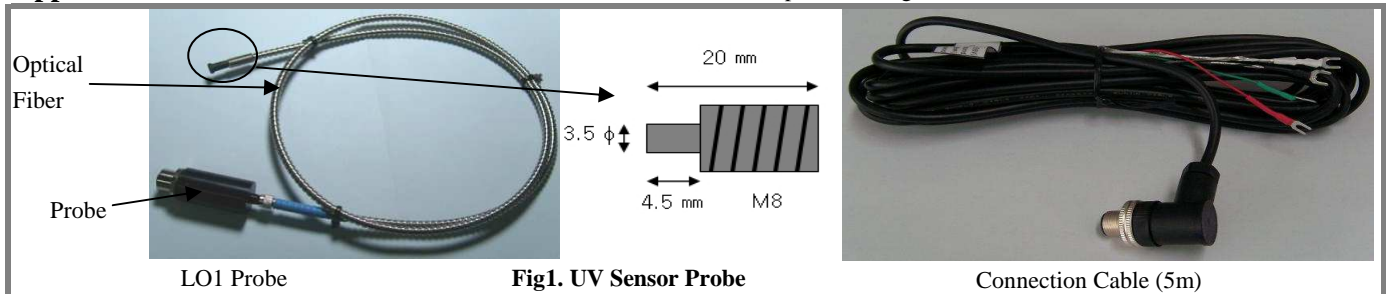
- Single Supply Voltage, Analog Voltage Output

- High Temperature Environment (under 200°C)

Applications

UV Power Measure

UV Lamp Monitoring



Case dimensions

LO Probe (mm)		LO Probe Material	Optical Fiber		
Diameter	Total		Length (m)	Core (mm)	Material
20	56	Al-60	1	1	SUS 304

Absolute Maximum Ratings

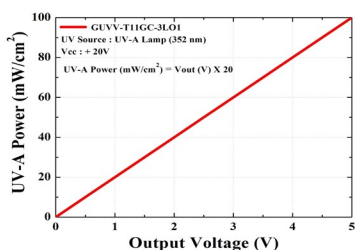
Parameter	Min.	Typ.	Max.	Unit	Remark
Operating Temperature			200	°C	
		-30		85	°C

Electro-Optical Characteristics (at 25 °C)

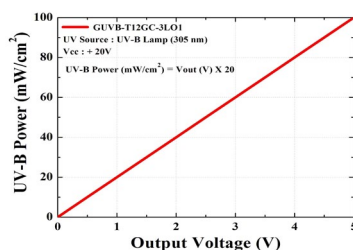
Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark	
Supply Voltage	V_{cc}	9		24	VDC		
Supply Current	I_Q		3.3		mA		
Detection Range	GUVV-T11GC-3LO1	λ	230		395	nm	10% of Max.
	GUVB-T12GC-3LO1	λ	220		320	nm	
	GUVC-T11GC-3LO1	λ	220		280	nm	
Output Voltage	V_{out}	0		5	V		
Detection Power Range	P	0		100	mW/cm ²		
Response Time	T		10		ms		

* maximum detection range : 100 mW / cm² (default), 1000 mW / cm² (optional)

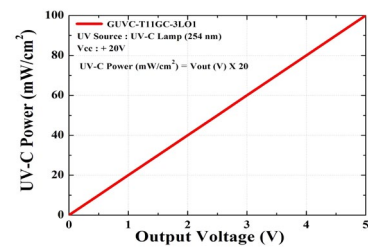
Output Voltage along UV power



GUVV-T11GC-3LO1



GUVB-T12GC-3LO1



GUVC-T11GC-3LO1

$$\text{UV Power (mW/cm}^2\text{)} = \text{Vout (V)} \times 20$$