

UV-C Sensor Probe

GUVC-T11GC-I4LW8.1

Features

- Single Supply Voltage, 3 wire 4-20 mA Current Output, Water Environment (10 bar)

Applications

Sterilization Lamp Monitoring

Pure UV-C Monitoring



Fig1. UV Sensor Probe

Case dimensions

Thread/Length for Mounting	Diameter (mm)	Window (mm)	Wrench Size (mm)	Length (mm)	Weight (g)	Body (stainless steel)
NPT1/2" / 12 mm	14	10	20	67	72	316-L (1.4404)

Absolute Maximum Ratings

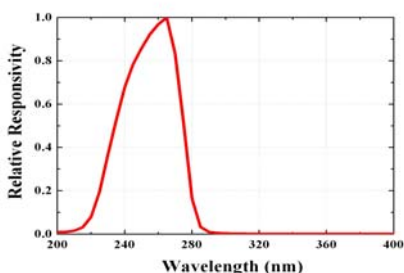
Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T _{st}	-40		90	°C	
Operating Temperature	T _{op}	-30		85	°C	

Electro-Optical Characteristics (at 25 °C)

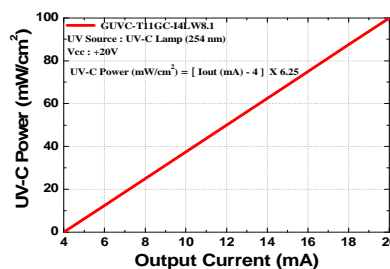
Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V _{cc}	9		24	VDC	
Offset Current	I _{off}		4		mA	
Spectral Detection Range	λ	220		280	nm	10% of Max.
Output Current	V _{out}	4		20	mA	
Detection Power Range	P	0		100	mW/cm ²	
Response Time	T		10		ms	

* Maximum of detection power : 20 mW/cm² (Option), 100 mW/cm² (Standard), 1000 mW/cm² (Option)

Relative Responsivity



Output Current along UV power



$$\text{UVC Power (mW/cm}^2\text{)} = (\text{Iout (mA)} - 4) \times 6.25$$

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