



# Electro Optical Components, Inc.

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<Preliminary Version>

## UV-C Sensor Probe

### GUVC-T11GC-I4LW8.2



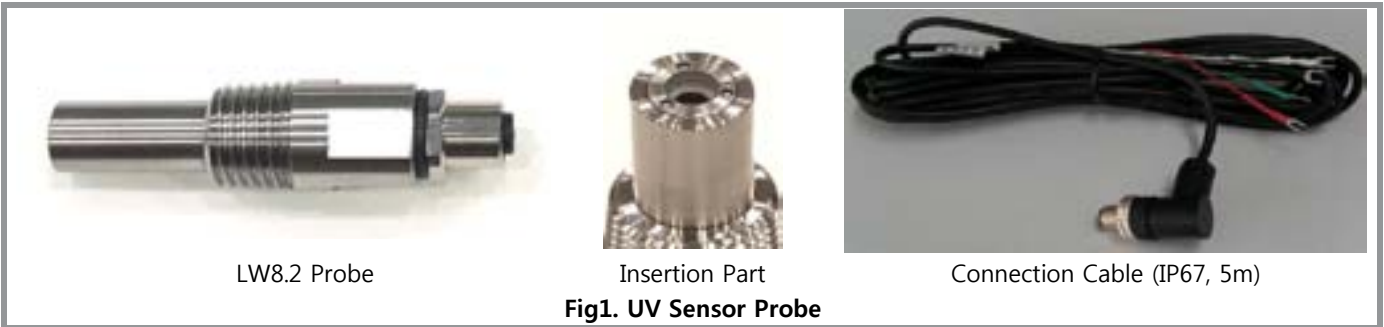
#### Features

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

#### Applications

Sterilization Lamp Monitoring

Pure UV-C Monitoring



#### 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	6	20	67	72	316-L ( 1.4404 )

#### Absolute Maximum Ratings

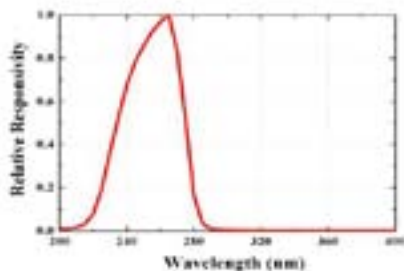
Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Storage Temperature	T <sub>st</sub>	-40		90	°C	
Operating Temperature	T <sub>op</sub>	-30		85	°C	

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

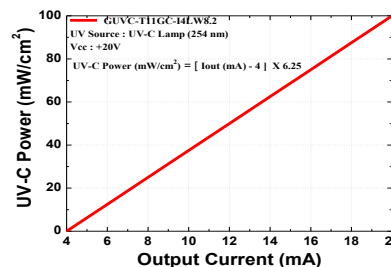
Parameter	Symbol	Value			Unit	Remark
		Min.	Typ.	Max.		
Supply Voltage	V <sub>cc</sub>	9		24	VDC	
Offset Current	I <sub>off</sub>		4		mA	
Spectral Detection Range	λ	220		280	nm	10% of Max.
Output Current	V <sub>out</sub>	4		20	mA	
Detection Power Range	P	0		100	mW/cm <sup>2</sup>	
Response Time	T		10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

\* Maximum of detection power : 20 mW/cm<sup>2</sup> (Option), 100 mW/cm<sup>2</sup> (Standard), 1000 mW/cm<sup>2</sup> (Option)

#### Relative Responsivity



#### Output Current along UV power



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