

# **NSL-6910**

#### **Light Dependent Resistor CdS Photocell**

The NSL-6910 is a light dependent resistor (LDR) with sensitivity in the visible light region. The photoresistor cell is contained in a TO-8 hermetically sealed package.

Advanced Photonix's CdS Photocells are photoresistor cells for visible light measurement designed to sense light from 400 to 700 nm. Their resistance decreases as the light level increases with efficiency characteristics similar to the human eye. These Light Dependent Resistors (LDR) are available in a wide range of resistance values. They are available in a two-leaded plastic-coated ceramic header or hermetically sealed TO metal cans.

## **Applications**

# Industrial Audio Compressors Night Lights Photography Light Meters Solar Street Lights Flame Detection

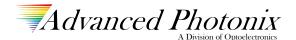
### **Features**

Passive Resistance output

Hermetically Sealed

Available in a two-leaded ceramic package

Available in a wide range of resistance values





#### **Absolute Maximum Ratings**

Parameter	Symbol	Min	Max	Unit			
Voltage	V <sub>R</sub>	-	170	V			
Power Dissipation	-	-	500	mW			
Operating Temperature	T <sub>OP</sub>	-40	+75	°C			
Storage Temperature	T <sub>STG</sub>	-60	+75	°C			
Package	TO-8						

# Typical Electro-Optical Specifications at T<sub>A</sub>=23 °C

Parameter	Test Conditions	Symbol	Min	Тур	Max	Unit
Light Resistance	2ftc., 2854 °K¹	$R_{\scriptscriptstyle L}$	167	250	332	ΚΩ
	100 ftc.,2854 °K¹	$R_{\scriptscriptstyle L}$	-	25	-	ΚΩ
Dark Resistance	5 sec after removal of test light	$R_{_{\mathrm{D}}}$	67	-	-	ΚΩ
Spectral Peak	-	λ	-	690	-	nm

 $<sup>^{\</sup>rm 1}\text{Cells}$  light adapted at 30 to 50 ftc for 16 hours prior to electrical tests.

#### **Mechanical Specifications**

Units are in inches [mm]

