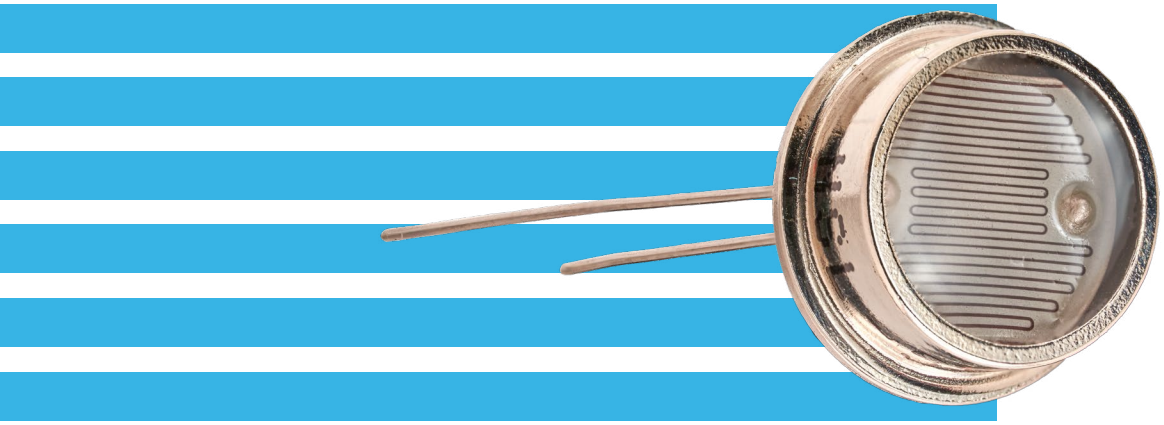

NSL-5910

Light Dependent Resistor CdS Photocell

The NSL-5910 is a light dependent resistor with sensitivity in the visible light region. The (CdS) photocell 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 at T_A=23 ºC

Parameter	Symbol	Min	Max	Unit
Voltage (peak AC or DC)	V_R	-	170	V
Power Dissipation @ 25ºC [1]	-	-	500	mW
Operating Temperature	T_{OP}	-60	+75	°C
Storage Temperature	T_{STG}	-	+75	°C
Package	TO-8			

[1] Derate linearly to zero at 75°C

Typical Electro-Optical Specifications at T_A=25 ºC

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Light Resistance	2ftc., 2854°K²	R_L	1.0	1.5	2.0	KΩ
	100 ftc.,2854°K²	R_L	-	150	-	Ω
Dark Resistance	5sec after removal of test light	R_D	100	-	-	KΩ
Spectral Peak	-	λ	-	550	-	nm

[2] Cells light adapted at 30 to 50 Ftc for 16 hrs minimum prior to electrical tests.

Mechanical Specifications

Units are in inches [mm]