



TO-8 Photocells

Plastic Encapsulated

Features

- Four photoconductive materials
- Tolerance: $\pm 40\%$ @ 1 ftc, $\pm 33\%$ @ 2 ftc

Description

The Silonex TO-8 series of photoconductive cells provide up to eight standard resistance ranges in CdS or CdSe materials. Most of these devices are also available in a hermetic package.

Absolute Maximum Ratings

Operating & Storage Temperature -60°C to $+75^{\circ}\text{C}$
 Power Dissipation @ 25°C (1) 250 mW

Special Order Package

On special order, these devices are also available in the optional plastic casing shown at the right. The glass window is optional.

Example: Part number NSL-491X

X = 1 plastic case without glass window (Fig 2.)

X = 2 regular open cell (Fig 1.)

X = 3 plastic case with glass window (Fig 2.)

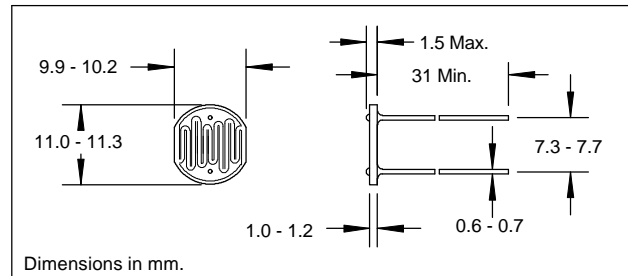


Fig 1.

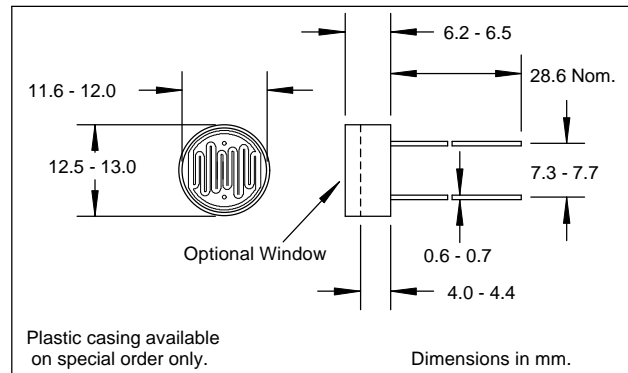


Fig 2.

Electrical Characteristics ($T_A=25^{\circ}\text{C}$, source at 2854°K)

Silonex Part No	Sensitive Material	Spectral Peak (nm)	R @ 1 ftc (Kohms) (3)	R @ 2 ftc (Kohms) (3)	R_{TYP} @ 100 ftc (ohms)	Min. R_{DARK} (Kohms) (2)	V_{MAX} (Volts) (peak AC or DC)
NSL-4912	Type 4 CdS	515	9.3		150	560	80
NSL-4922			4.0		80	250	80
NSL-4932			1.7		50	100	80
NSL-4942			0.725		30	50	80
NSL-4952			40		860	2400	320
NSL-4962			17		500	1000	320
NSL-4972			7.25		260	400	320
NSL-4982			114		2500	6800	320
NSL-5912	Type 5 CdS	550		1.5	150	100	170
NSL-5922				3.0	300	200	170
NSL-5932				6.0	500	400	250
NSL-5942				9.0	700	600	250
NSL-6922	Type 6 CdSe	690		0.510	50	300	170
NSL-6952				2.7	200	720	170
NSL-9912	Type 9 CdS	550		11	350	3600	170

Specifications subject to change without notice.

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Notes: (1) derate linearly to zero at 75°C .

(2) 5 sec. after removal of test light.

(3) cells light adapted at 30 to 50 ftc for 16 hrs minimum prior to electrical tests.