



# TO-18 Photocells

## Hermetic Package

### Features

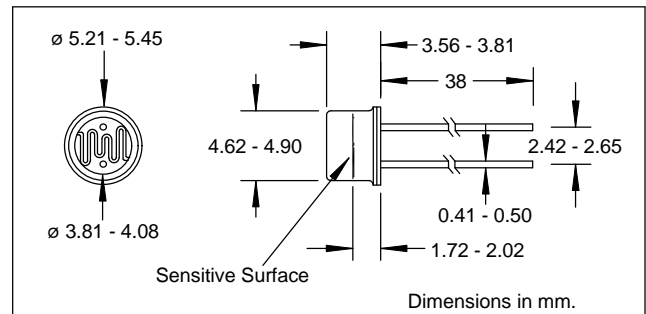
- Six Photoconductive Materials
- Tolerance:  $\pm 40\%$  @ 1 ftc,  $\pm 33\%$  @ 2 ftc

### Description

The Silonex TO-18 hermetic flat lens package series of photocells provide up to seven standard resistance ranges in CdS or CdSe materials.

### Absolute Maximum Ratings

Operating & Storage Temperature       $-60^{\circ}\text{C}$  to  $+75^{\circ}\text{C}$   
 Power Dissipation @  $25^{\circ}\text{C}$  (1)                      50 mW



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

| Silonex Part No | Sensitive Material | Spectral Peak (nm) | R @ 1 ftc (Kohms) (3) | R @ 2 ftc (Kohms) (3) | $R_{Typ}$ @ 100 ftc (Kohms) | Min. $R_{Dark}$ (Mohms) (2) | $V_{MAX}$ (Volts) (peak AC or DC) |
|-----------------|--------------------|--------------------|-----------------------|-----------------------|-----------------------------|-----------------------------|-----------------------------------|
| NSL-3110        | Type 3<br>CdSe     | 725                |                       | 6                     | 0.45                        | 40                          | 100                               |
| NSL-3120        |                    |                    |                       | 66                    | 4                           | 440                         | 100                               |
| NSL-3130        |                    |                    |                       | 133                   | 9                           | 880                         | 250                               |
| NSL-4120        | Type 4<br>CdS      | 515                | 75                    |                       | 1.3                         | 4.5                         | 80                                |
| NSL-4130        |                    |                    | 30                    |                       | 0.50                        | 1.8                         | 80                                |
| NSL-4140        |                    |                    | 14                    |                       | 0.25                        | 0.80                        | 80                                |
| NSL-4150        |                    |                    | 550                   |                       | 9                           | 33                          | 320                               |
| NSL-4160        |                    |                    | 260                   |                       | 4                           | 15.6                        | 320                               |
| NSL-4170        |                    |                    | 110                   |                       | 1.7                         | 6.6                         | 320                               |
| NSL-4180        |                    |                    | 50                    |                       | 0.90                        | 3.0                         | 160                               |
| NSL-5110        | Type 5<br>CdS      | 550                |                       | 10                    | 0.70                        | 0.67                        | 100                               |
| NSL-5120        |                    |                    |                       | 20                    | 1.5                         | 1.3                         | 100                               |
| NSL-5130        |                    |                    |                       | 84                    | 5                           | 5.6                         | 100                               |
| NSL-5140        |                    |                    |                       | 165                   | 10                          | 11                          | 250                               |
| NSL-5150        |                    |                    |                       | 15                    | 0.40                        | 10                          | 60                                |
| NSL-5160        |                    |                    |                       | 100                   | 3                           | 67                          | 100                               |
| NSL-5170        |                    |                    |                       | 700                   | 20                          | 467                         | 100                               |
| NSL-6110        | Type 6<br>CdSe     | 690                |                       | 2                     | 0.17                        | 1.3                         | 100                               |
| NSL-6120        |                    |                    |                       | 4                     | 0.30                        | 2.6                         | 100                               |
| NSL-6130        |                    |                    |                       | 15                    | 1                           | 10                          | 100                               |
| NSL-6140        |                    |                    |                       | 30                    | 2                           | 20                          | 250                               |
| NSL-7110        | Type 7<br>CdS      | 615                |                       | 6                     | 0.35                        | 1                           | 100                               |
| NSL-7120        |                    |                    |                       | 66                    | 4                           | 11                          | 100                               |
| NSL-7130        |                    |                    |                       | 132                   | 8                           | 22                          | 250                               |
| NSL-7140        |                    |                    |                       | 4.5                   | 0.25                        | 3                           | 60                                |
| NSL-7150        |                    |                    |                       | 24                    | 1                           | 16                          | 100                               |
| NSL-7160        |                    |                    |                       | 300                   | 16                          | 200                         | 100                               |

Specifications subject to change without notice

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Notes: (1) derate linearly to zero at  $75^{\circ}\text{C}$

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

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

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