



# TO-18 Photocells

## Hermetic Package

### Features

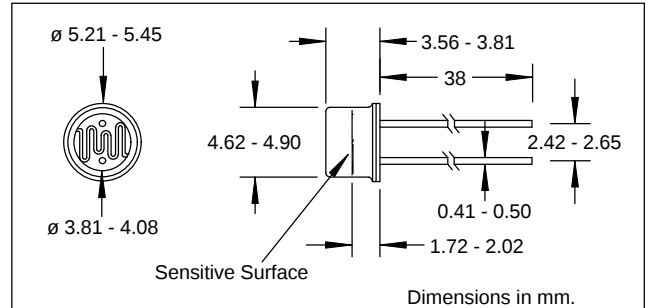
- Six Photoconductive Materials
- Tolerance:  $\pm 40\%$  @1 ftc,  $\pm 33\%$  @ 2 ftc

### 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 <sub>TVD</sub> @ 100 ftc (Kohms) | Min. R <sub>Dark</sub> (Mohms) (2) | V <sub>MAX</sub> (Volts) (peak AC or DC) |
|-----------------|--------------------|--------------------|-----------------------|-----------------------|------------------------------------|------------------------------------|------------------------------------------|
| NSL-3110        | Type 3 CdSe        | 725                |                       | 6                     | 0.45                               | 40                                 | 100                                      |
| NSL-3120        |                    |                    |                       | 66                    | 4                                  | 440                                | 100                                      |
| NSL-3130        |                    |                    |                       | 133                   | 9                                  | 880                                | 250                                      |
| NSL-4120        | Type 4 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 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 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 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

103285 REV 2

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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