# Deep Gap Slotted Switch with Wire and Connector Options 

## OPB815L, OPB815WZ Series

## Features:

- Wide slot width: $0.375^{\prime \prime}$ ( 9.5 mm )
- Deep slot depth: 0.430 " ( 10.9 mm )



## Description:

The OPB815 consists of an infrared Light Emitting Diode (LED) and an NPN silicon phototransistor mounted in a low-cost plastic housing. The device is designed to switch electrical states when an opaque object is passed through the slot. The slot is wider and deeper than many slotted switches and will accommodate a variety of different materials.

This device can be ordered with PCBoard solderable leads (OPB815L) or with 26 AWG stranded, UL rated wire length of $24 "$ [610 mm] (OPB815WZ).

Custom electrical, wire and cabling and connectors are available. Contact your local representative or OPTEK for more information.

| Ordering Information |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part | LED Peak |  |  | Slot | Aperture <br> Emitter /Sensor |  |
| OPB815L | 890 nm | Transistor | $0.375^{\prime \prime} / 0.430^{\prime \prime}$ | None | $0.10^{\prime \prime} / 0.53^{\prime \prime}$ |  |
| Length / |  |  |  |  |  |  |
| OPB815WZ | 890 nm | Transistor | $0.375^{\prime \prime} / 0.430^{\prime \prime}$ | None | $244^{\prime \prime} / 26$ AWG |  |

## Applications:

- Non-contact object sensing
- Assembly line automation
- Machine automation
- Equipment security
- Machine safety


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## IT <br> Electronics

## OPB815L, OPB815WZ Series



| Pin \# | Description |
| :---: | :---: |
| 1 | Anode |
| 2 | Cathode |
| 3 | Collector |
| 4 | Emitter |


| Color | Description |
| :---: | :---: |
| Red | Anode |
| Black | Cathode |
| White | Collector |
| Green | Emitter |

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## Electrical Specifications



Notes:
(1) All wires are 26 AWG stranded, UL rated.
(2) Derate linearly $1.67 \mathrm{~mW} /{ }^{\circ} \mathrm{C}$ above $25^{\circ} \mathrm{C}$.
(3) Methanol or isopropanol are recommended as cleaning agents. The plastic housing is soluble in chlorinated hydrocarbons and keytones.

(4) All parameters tested using pulse techniques.


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Performance


Refer to Test Diagram on page 2 for definition of "Top to Bottom", "Left to Right" and "Right to Left"

