# 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


# Deep Gap Slotted Switch with Wire and Connector Options 

## 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 |

## OPB815L, OPB815WZ Series

## 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.


## Deep Gap Slotted Switch with Wire and Connector Options

## OPB815L, OPB815WZ Series

Performance


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

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components
Click to view similar products for Optical Switches, Transmissive, Phototransistor Output category:
Click to view products by TT Electronics manufacturer:

Other Similar products are found below :
LTH-301-07 LTH-301-23 E3C-X2C E3S-LS20B4S1 E3SX2CE4 RPI-0125B RPI-2501 RPI-576A KRA021 LTH-306-04M LTH-309-08 HOA0865-100 HOA1961-055 E3F-3C4 LTH-306-01 EESX677C1JR01M SIT506F-A HOA1883-501 PT928-6B-F RPI-243 EE-SX675PWR 1M OPB806 EE-SX1128 OPB857Z EE-SV3-B EE-SJ3-D RPI-0226 EE-SX672R EE-SX670P-WR 1M LTH-301-32 EESX674PWR1M EE-SX952-W 1M RPI-0352E RPI-352C40N DY-ITR002 DY-ITR1100 DY-ITR9909-W2 HOA0825-001 HOA0825-003 HOA0860-N51 HOA0861-N55 HOA0861-P55 HOA0861-T55 HOA0866-P55 HOA0866-T55 HOA0867-P55 HOA0867-T55 HOA0870T51 HOA0871-L55 HOA0872-N55

