

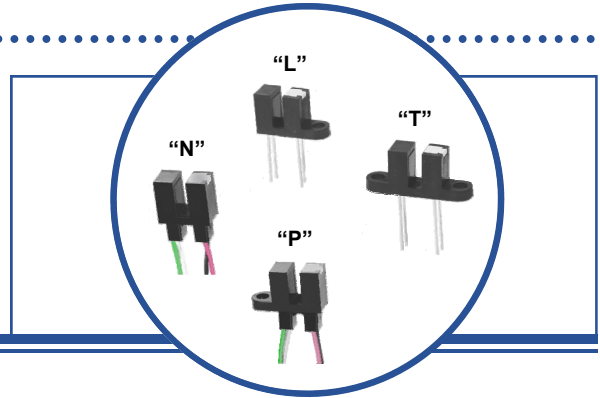
# Slotted Optical Switch

OPB355, OPB360, OPB370, OPB380, OPB390  
 OPB859, OPB860, OPB870, OPB880, OPB890  
 Series



## Features:

- 0.125" (3.175 mm) slot width
- Choice of aperture (0.050" or 0.010" width)
- Choice of opaque or IR transmissive shell material
- Choice of mounting configurations
- Choice of lead spacing or wires



## Description:

Each device in this series provides the flexibility of a custom device from a standard product line. Building from a standard housing with a 0.125" (3.175 mm) wide slot, a user can choose aperture width, opaque or IR transmissive housing shell material, PCBoard lead spacing or wires and mounting tab configuration.

Housings are made from an opaque grade of injection-molded plastic to minimize sensitivity to both visible and near-infrared light. Discrete shells exposed on the parallel faces inside each device's throat are made from either IR transmissive plastic (for applications where dust protection is needed) or from opaque plastic with aperture openings (for applications that require maximum protection against ambient light).

Phototransistor sensor devices include the **OPB859, OPB360, OPB370, OPB380, OPB390, OPB860** and **OPB870**, while the **OPB355** provides a photodiode sensor. The photodiode sensor has a lower and more linear output-versus-light input than the phototransistor models.

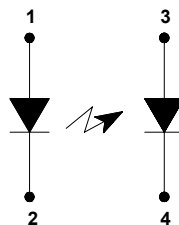
The **OPB355, OPB360, OPB370, OPB859, OPB860** and **OPB870** are designed for direct connection to through hole PCBoards. The **OPB380, OPB390, OPB880** and **OPB890** have 26 AWG, UL approved wires connected directly to the device for remote sensing applications.

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

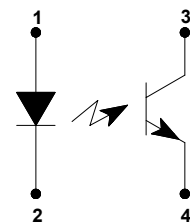
## Applications:

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

OPB355



OPB360, OPB370, OPB380, OPB390  
 OPB859  
 OPB860, OPB870, OPB880, OPB890



RoHS

### CONTAINS POLYSULFONE

To avoid stress cracking, we suggest using ND Industries' **Vibra-Tite** for thread-locking. **Vibra-Tite** evaporates fast without causing structural failure in OPTEK's molded plastics.  
**Applies to: OPB360, OPB370, OPB380, OPB390**  
**and OPB860, OPB870, OPB880, OPB890.**

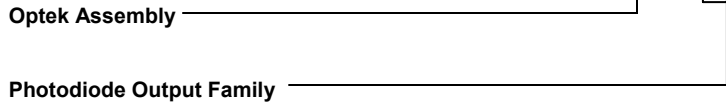
OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.

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**Series**



**Part Number Guide — OPB355**

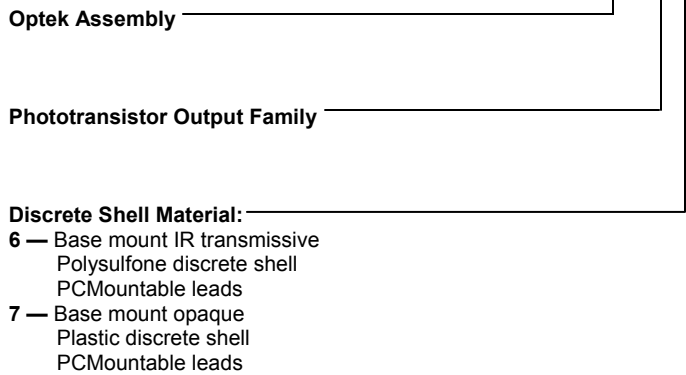
**OPB 3 X X X**



- Mounting Configurations:**  
**N** — No mounting tabs  
**L** — Emitter side mounting tab only  
**P** — Sensor side mounting tab only  
**T** — Two mounting tabs

**Part Number Guide — OPB360 / OPB370**

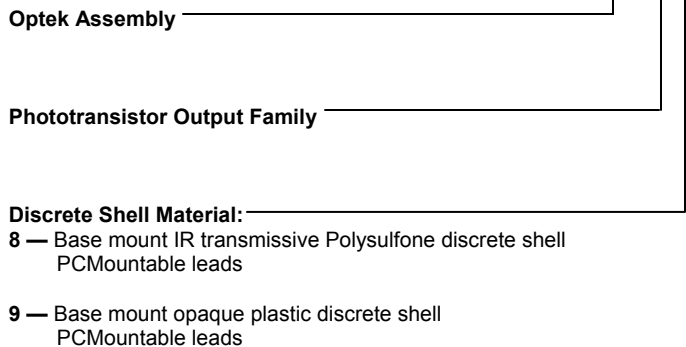
**OPB 3 X X X X X**



- Sensor Aperture:**  
**1** — 0.010" (0.254 mm)  
**5** — 0.050" (1.270 mm)
- Emitter Aperture:**  
**1** — 0.010" (0.254 mm)  
**5** — 0.050" (1.270 mm)
- Mounting Configurations:**  
**L** — Emitter side mounting tab only  
**N** — No mounting tabs  
**P** — Sensor side mounting tab only  
**T** — Two mounting tabs
- Lead Spacer Designator:**  
**0** = 0.320" (8.12 mm) lead space  
**5** = 0.220" (5.59 mm) lead space

**Part Number Guide — OPB380 / OPB390**

**OPB 3 X 0 X X X Z**



- RoHS Compliant**
- Sensor Aperture:**  
**1** — 0.010" (0.254 mm)  
**5** — 0.050" (1.270 mm)
- Emitter Aperture:**  
**1** — 0.010" (0.254 mm)  
**5** — 0.050" (1.270 mm)
- Mounting Configurations:**  
**L** — Emitter side mounting tab only  
**N** — No mounting tabs  
**P** — Sensor side mounting tab only  
**T** — Two mounting tabs

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