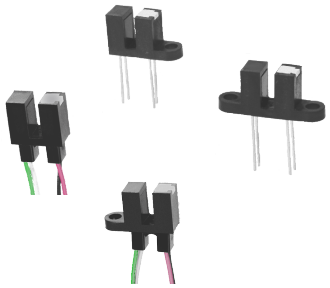
Slotted Optical Switch

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



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:

The slotted optical sensors in this series provide the flexibility of a custom device from a standard product line.

Building from a standard housing with a 0.125” (3.18mm) wide slot, the user can specify output logic state, output driver circuit, aperture width, aperture surface and mounting tab locations. Furthermore, an option of wire or PCB leads allows electrical interface flexibility.

The device body is an opaque plastic which minimizes sensitivity to both visible and near-infrared external light sources which may impact operation. Aperture width choices provide different optical resolution for motion sensing. A covered aperture provides dust protection, while an open aperture provides maximum protection against external light sources.

Phototransistor sensor devices are: OPB360, OPB370, OPB380, OPB390, OPB859, OPB860, OPB870, OPB880, OPB890. The OPB355 provides a photodiode detector, which has a lower linear output-versus-light.

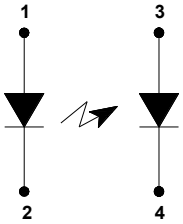
Wide electrical output current ranges are available. LED emissions are near-infrared (850-940nm).

Custom electrical, wire and cabling services are available.
Contact your local representative or OPTEK for more information. Compliant to EU RoHS Directive 2002/95/EC.

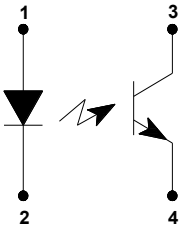
Applications:

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

OPB355



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



Wire Colors	
Color #	**Description**
1	Red
2	Black
3	White
4	Green

CONTAINS POLYSULFONE

To avoid stress cracking, we suggest using ND Industries’ **Vibra-Tite** for thread-locking. **ND Vibra-Tite Formula 3** evaporates fast without causing structural failure in OPTEK’s molded plastics.

Applies to: OPB360, OPB370, OPB380, OPB390 and OPB860, OPB870, OPB880, OPB890.

RoHS

General Note
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics’ own data and is considered accurate at time of going to print.

OPTEK Technology, Inc.
1645 Wallace Drive, Carrollton, TX 75006|Ph: +1 972 323 2200
www.optekinc.com | www.ttelectronics.com

© TT electronics plc

Part Number Guide — OPB355

OPB 3 X X X

Optek Assembly

Phototransistor Output Family

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

Part Number Guide — OPB360 / OPB370

OPB 3 X X X X X

Optek Assembly

Phototransistor Output Family

Discrete Shell Material:
6 - Covered (apertures not visible), PCB leads
7 - Open (apertures visible), PCB leads

Sensor Aperture:
1 - 0.010" (0.254 mm)
5 - 0.050" (1.270 mm)

Emitter Sensor:
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

Optek Assembly

Phototransistor Output Family

Discrete Shell Material:
8 - Covered (apertures not visible), Wires
9 - Open (apertures visible), Wires

RoHS Compliant

Sensor Aperture:
1 - 0.010" (0.254 mm)
5 - 0.050" (1.270 mm)

Emitter Sensor:
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

General Note
TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

OPTEK Technology, Inc.
1645 Wallace Drive, Carrollton, TX 75006|Ph: +1 972 323 2200
www.optekinc.com | www.ttelectronics.com

© TT electronics plc