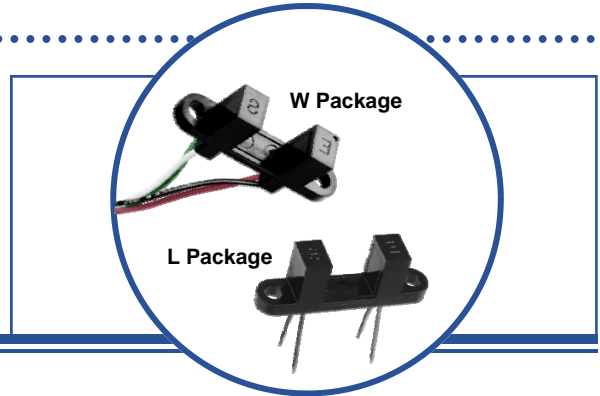


Wide Gap Slotted Optical Switch OPB800 & OPB810 (L and W Series)



Features:

- 0.375" (9.525 mm) wide gap
- Choice of aperture size
- Choice of minimum photocurrent
- Choice of opaque or IR transmissive shells
- Available for PCBoard mounting or with 24" 26 AWG wires



Description:

The **OPB800L** series, PCBoard mounting, of wide gap switch provides the flexibility of a custom device from a standard product line, while the **OPB800W** series, remote mounted, switch offers 24" (610 mm) 26 AWG wire interconnect.

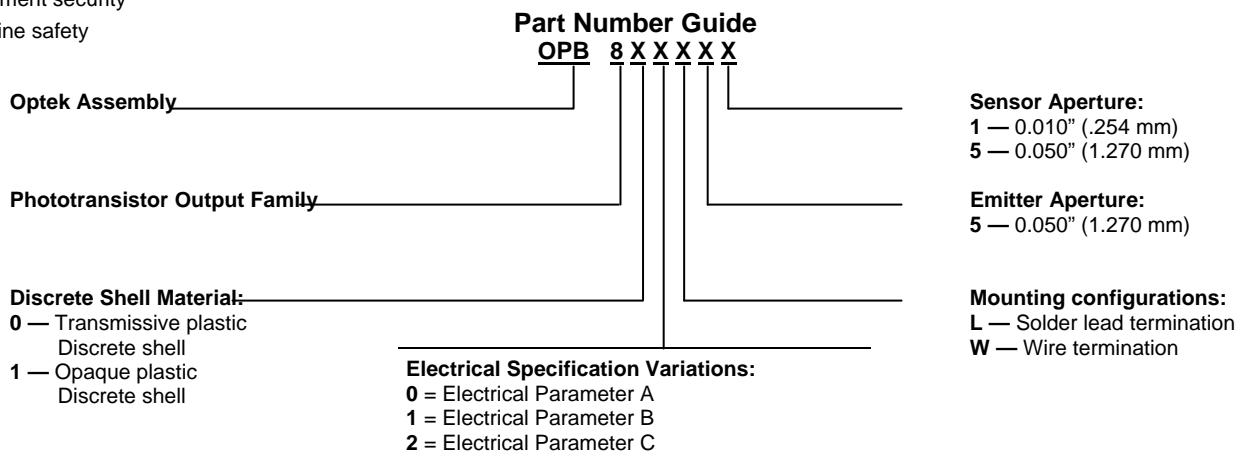
Building from a standard housing that utilizes a 0.375" (9.5 mm) wide slot, a user can specify the electrical output parameters, discrete shell material and the aperture width.

Housings are made from an opaque grade of injection-molded plastic that minimizes the assembly's sensitivity to visible and near-infrared ambient radiation. Discrete shells, which are exposed on parallel faces inside the device throat, are made of IR transmissive plastic (for applications where aperture contamination may occur) or of opaque plastic with aperture openings (for maximum protection against ambient light).

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

Applications:

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



Note: Assemblies with 0.010" apertures are currently available with electrical parameter "A" only.
 Wires = 26AWG—24" Long



RoHS

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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Absolute Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

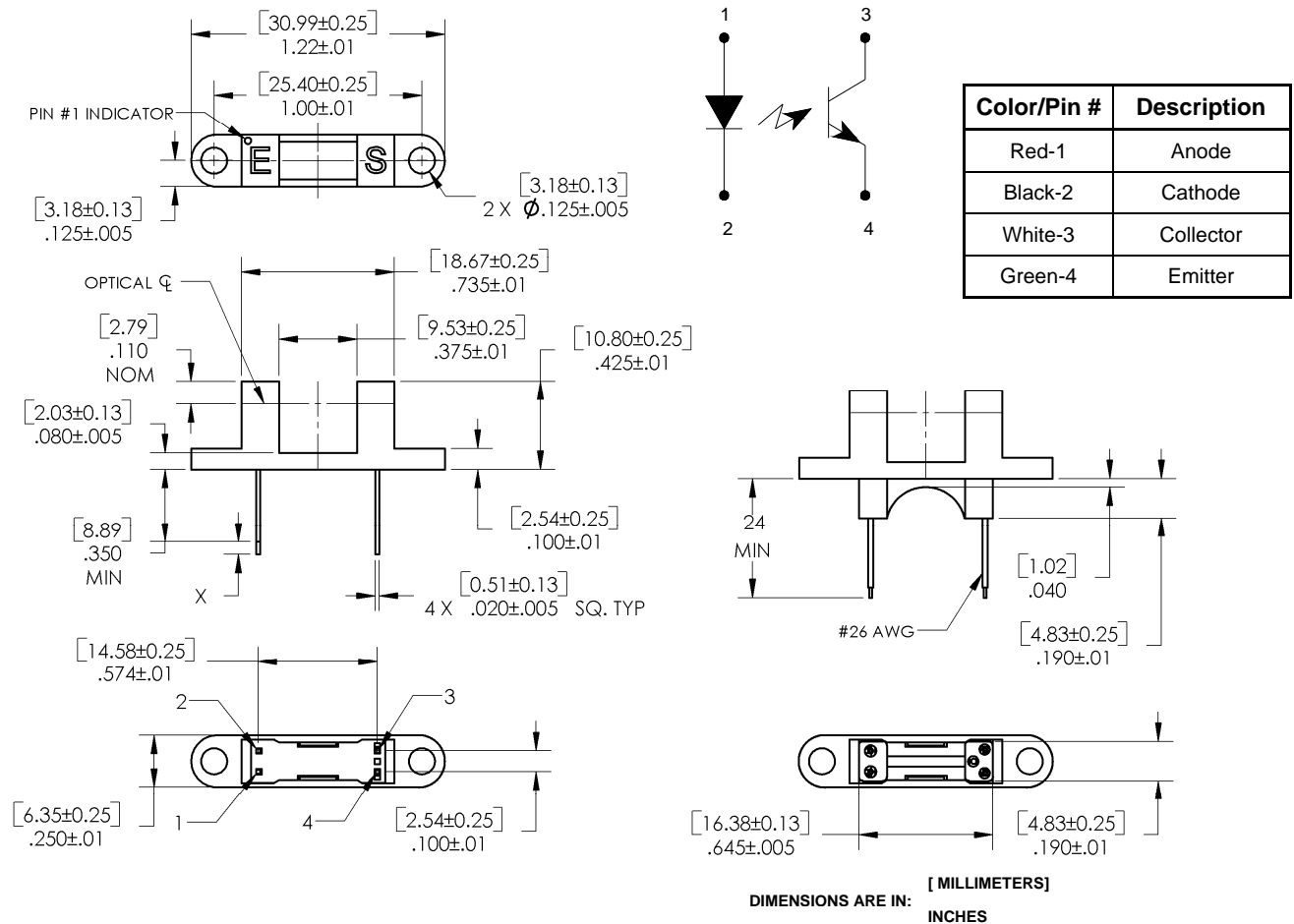
Storage and Operating Temperature L Series W Series	-40° C to +85° C -40° C to +80° C
Lead Soldering Temperature [1/16 inch (1.6mm) from the case for 5 sec. with soldering iron] ⁽²⁾	260° C

Input Diode

Forward DC Current	50 mA
Peak Forward Current (1 μs pulse width, 300 pps)	3 A
Reverse DC Voltage	2 V
Power Dissipation ⁽¹⁾	100 mW

Output Phototransistor

Collector-Emitter Voltage	30 V
Emitter-Collector Voltage	5 V
Collector DC Current	30 mA
Power Dissipation ⁽¹⁾	100 mW



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