

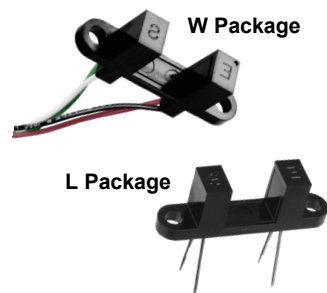
Wide Gap Slotted Optical Switch



OPB800 (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:

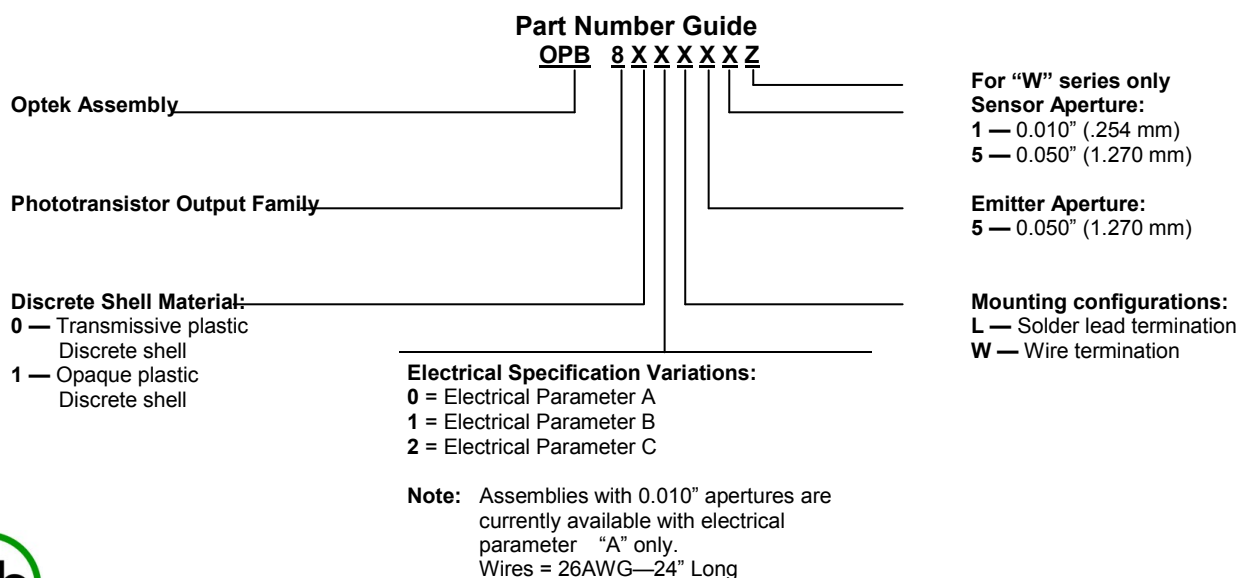
The OPB800L series, PCBoard mounting, of wide gap switch provides the flexibility of a custom device from a standard product line, while the OPB800W series, remote mounted, switch offers 24" (610 mm) 26 AWG wire interconnect.

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).

Applications:

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



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.

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Electrical Specifications

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

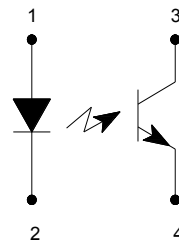
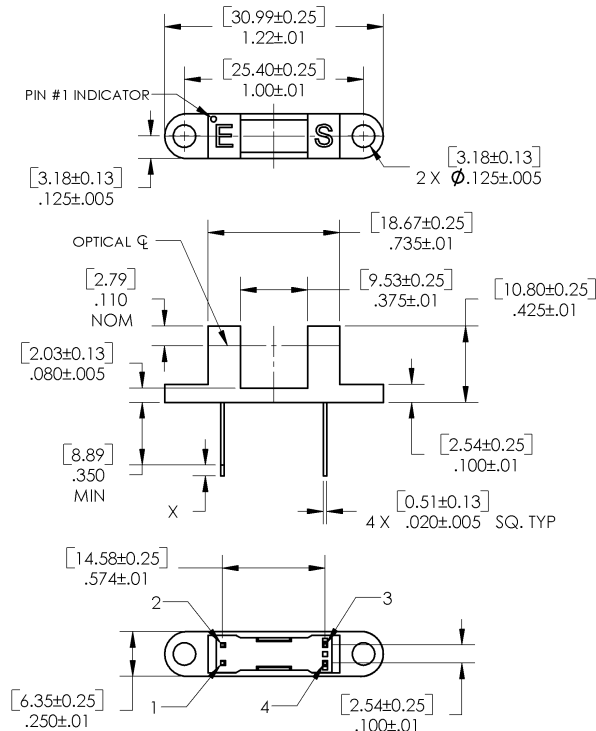
Storage and Operating Temperature L Series W Series	-40° C to +85° C -40° C to +80° C
Lead Soldering Temperature [1/16 inch (1.6mm) from the case for 5 sec. with soldering iron] ⁽²⁾	260° C

Input Diode

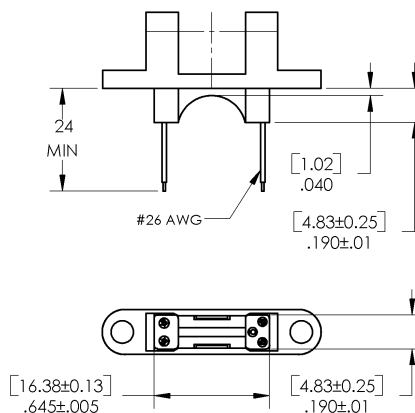
Forward DC Current	50 mA
Peak Forward Current (1 μs pulse width, 300 pps)	3 A
Reverse DC Voltage	2 V
Power Dissipation ⁽¹⁾	100 mW

Output Phototransistor

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



Color/Pin #	Description
Red-1	Anode
Black-2	Cathode
White-3	Collector
Green-4	Emitter



DIMENSIONS ARE IN INCHES AND [MILLIMETERS].

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