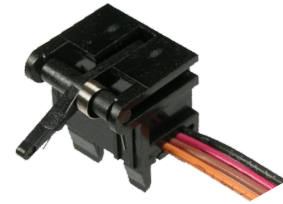


Slotted Optical Flag Switch

OPB850-1Z



Features:

- Snap into PCBoard mounting
- Transistor output
- Mechanical switch replacement
- Four 18" (457 mm) 26 AWG, UL wires for electrical connections

Description:

Each **OPB850-1Z** has an Rbe phototransistor coupled with an 880 nm gallium arsenide infrared emitting diode in a molded plastic housing. An actuated lever arm flag interrupts the light beam, which switches the transistor output between states that can readily drive logic gates.

These devices are designed to replace conventional mechanical limit switches where long life and reliability are critical. The switches are designed to easily snap mount into a 0.036 inch (0.914 mm) 20 gage thick material with a rectangular opening of 0.315" x 0.472" (8.0 mm x 12.0 mm).

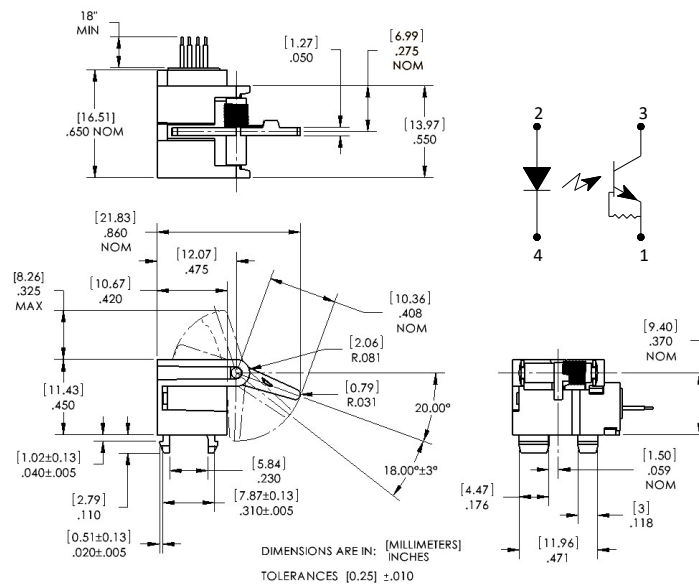
Custom electrical, wire and cabling and connectors are available. Contact your local representative or OPTEK for more information.

Applications:

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

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

Ordering Information		
Part Number	Wavelength	Description
OPB850-1Z	880 nm	Slotted Optical Flag Switch 18" (457 mm) wires



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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Slotted Optical Flag Switch

OPB850-1Z



Electrical Specifications

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

Operating Temperature Range	-20 °C to +75 °C
Storage Temperature Range	-40 °C to +85 °C
Lead Soldering Temperature [1/16 inch (1.6 mm) from the case for 5 sec. with soldering iron]	260 °C
Input Diode	
Reverse Voltage	5 V
Continuous Forward Current	50 mA
Peak Forward Current (10 μ s pulse width, 300 pps)	1 A
Power Dissipation	75 mW
Output Phototransistor	
Collector-Emitter Voltage	24 V
Emitter-Collector Voltage	5 V
Collector DC Current	20 mA
Power Dissipation	100 mW

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