

Photologic[®] Slotted Optical Switch OPB960, OPB970, OPB980, OPB990 Series

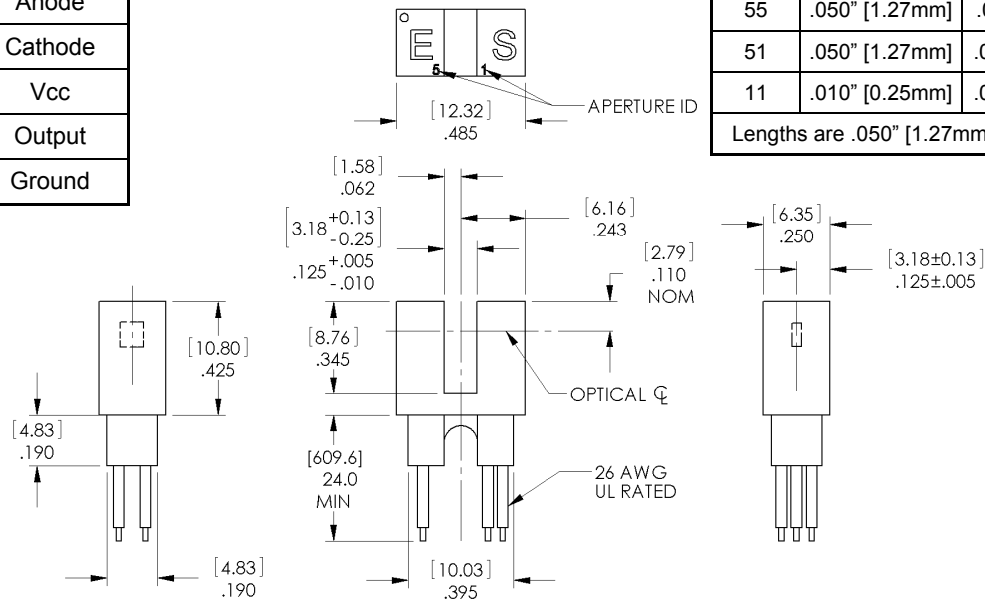


PACKAGE OUTLINE for OPB980 and OPB990 Series

TABLE 2

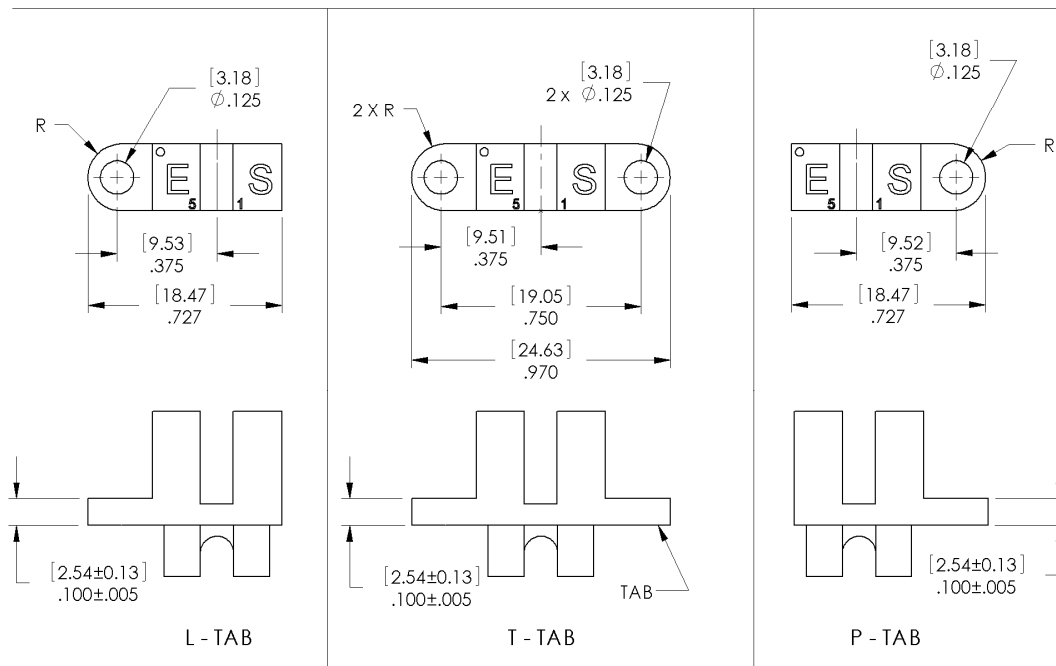
Wire Color	Function
Red	Anode
Black	Cathode
White	Vcc
Blue	Output
Green	Ground

APERTURE WIDTH GUIDE		
CODE	LED	SENSOR
55	.050" [1.27mm]	.050" [1.27mm]
51	.050" [1.27mm]	.010" [0.25mm]
11	.010" [0.25mm]	.010" [0.25mm]
Lengths are .050" [1.27mm]		



N - TAB

DIMENSIONS ARE IN INCHES AND [MILLIMETERS].
TOLERANCES ARE ± .010 [0.25]



L - TAB

T - TAB

P - TAB

Notes:

- (7) Wire is 26AWG, UL Rated PVC insulation.
- (8) Ideal torque for bolt or screw 0.45 to 0.68 Nm (4 to 6 Lb-in).
- (9) When using a thread lock compound, ND Industries "ND Vibra-Tite[®] Formula 3" will avoid stress cracking plastic.
- (10) Plastic is soluble in chlorinated hydrocarbons and ketones. Methanol or isopropanol are recommended as cleaning agents.

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

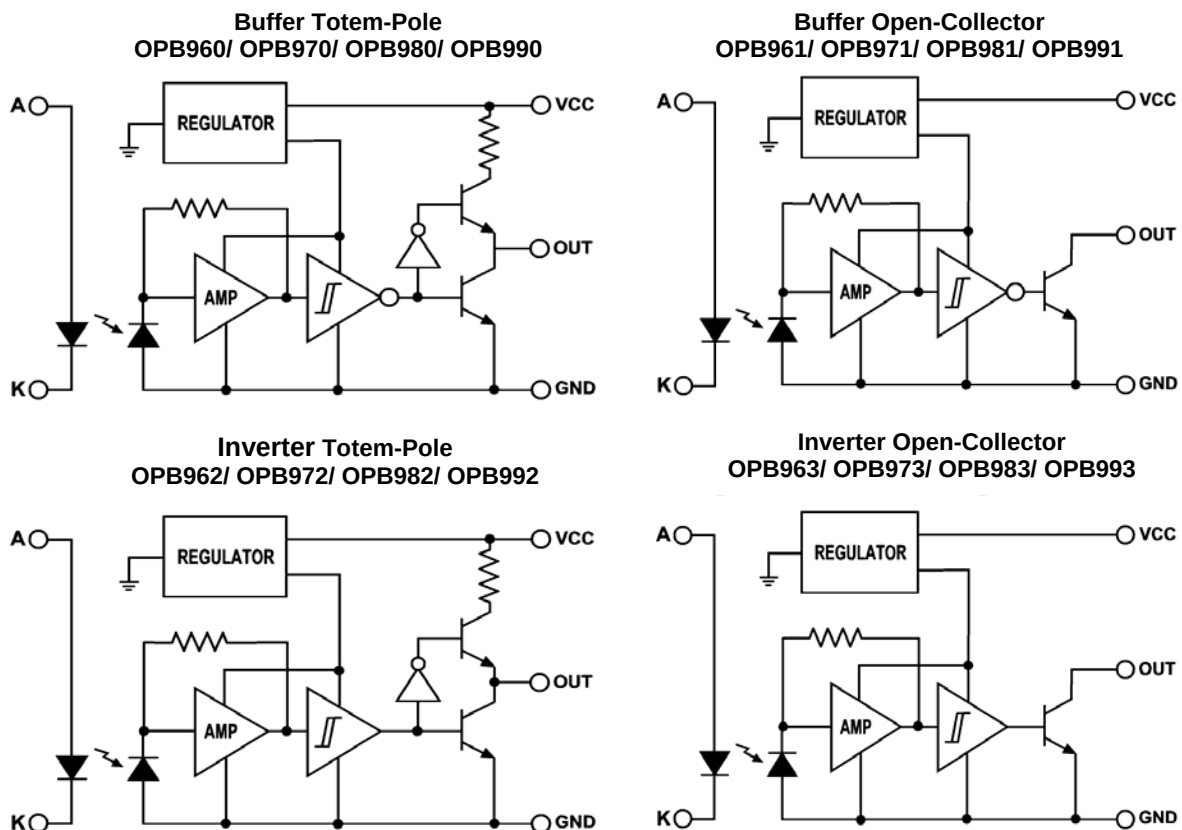
Absolute Maximum Ratings

Storage Temperature Range	-40°C to +85° C
Operating Temperature Range	-40°C to +70° C
Input Diode (E)	
Input Diode Power Dissipation	100 mW ⁽¹¹⁾
Input Diode Forward D.C. Current, T _A = 25°C	40 mA ⁽¹⁴⁾
Input Diode Reverse D.C. Voltage, T _A = 25°C	2 V
Sensor (S)	
Supply Voltage (V _{CC} to Ground)	18 V ⁽¹³⁾
Output Photologic [®] Power Dissipation	200 mW ⁽¹²⁾
Voltage at Output Lead (Open-Collector Output), T _A = 25°C	35V
Short Circuit Output Current to Ground (I _{OS}) 1 sec Max.	30 mA

Notes:

- (11) Derate linearly 2.22 mW / °C above 25° C.
- (12) Derate linearly 4.44 mW / °C above 25° C.
- (13) Prior to 2004 V_{CC} was limited to 5.5V maximum.
- (14) Do not connect input diode directly to a voltage source without an external current limiting resistor.

Block Diagram



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