# General Specifications

#### **Electrical Capacity (Resistive Load)**

Logic Level: 0.4VA maximum @ 28V AC/DC maximum (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V) Note: Find additional explanation of operating range in Supplement section.

#### **Other Ratings**

Contact Resistance:	80 milliohms maximum	
Insulation Resistance:		
Dielectric Strength:	500V AC minimum for 1 minute minimum	
Mechanical Life:	: 50,000 operations minimum	
Electrical Life:	50,000 operations minimum	
Nominal Operating Force:	1.0N	
Angle of Throw:	28°	

#### **Materials & Finishes**

Polycarbonate resin (UL94V-0)
Glass fiber reinforced polyamide (UL94V-0)
Nitrile butadiene rubber
Glass fiber reinforced polyamide
Phosphor bronze with gold plating
Phosphor bronze with gold plating
Phosphor bronze with gold plating

#### **Environmental Data**

Operating Temperature Range:	–25°C through +55°C (–13°F through +131°F)
Humidity:	90 ~ 95% humidity for 240 hours @ 40°C (104°F)
Vibration:	10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in
	5 minutes; 3 right angled directions for 2 hours
Shock:	50G (490m/s <sup>2</sup> ) acceleration (tested in 3 right angled directions, with 5 shocks in each direction)

#### **PCB** Processing

Soldering:Wave Soldering recommended. See Profile A in Supplement section.Manual Soldering:See Profile A in Supplement section.Cleaning:These devices are not process sealed. Hand clean locally using alcohol based solution.

#### **Standards & Certifications**

Flammability Standard: UL94

UL94V-0 actuator & case

The GW Series illuminated paddles have not been tested for UL recognition or CSA certification. These switches are designed for use in a low-voltage, low-current, logic-level circuit. When used as intended in a logic-level circuit, the results do not produce hazardous energy.

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Toggles

Tactiles

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Touch

Rotaries



# Distinctive Characteristics

World's smallest fully illuminated paddles (patent pending) for highly visible status indication; LEDs available in red, green, or amber for single color and red/green for bicolor.

Specially designed switching mechanism provides crisp actuation feedback to positively indicate circuit transfer (patent pending).

Insert molded terminals prevent entry of flux and other contaminants.

Award-winning STC contact mechanism with benefits unavailable in conventional mechanisms: smoother, positive detent actuation, increased contact stability, and unparalleled logic-level reliability. (Additional STC details in Terms & Acronyms; see Supplement section.)

 $.100^{\prime\prime}$  x  $.100^{\prime\prime}$  (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing for straight and angle mounting.



Actual Size



Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Tactiles

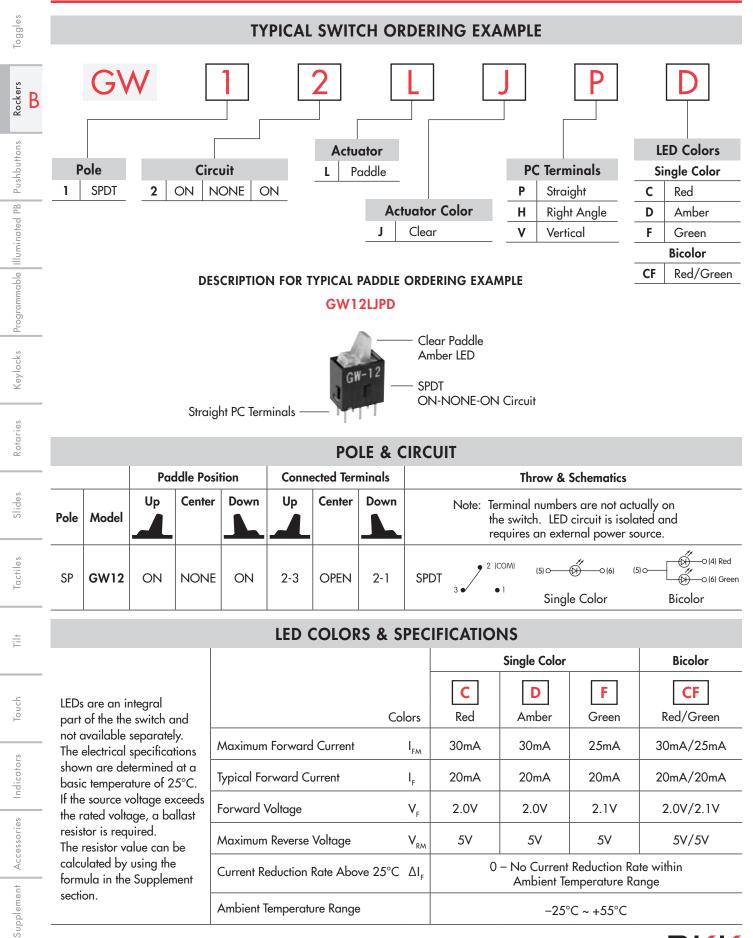
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Touch

Supplement Accessories Indicators

**B**37

#### **Ultra-Thin Fully Illuminated Paddles**





CHES

