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:	50 milliohms maximum
Insulation Resistance:	500 megohms minimum @ 500V DC
Dielectric Strength:	500V AC minimum for 1 minute minimum
Mechanical Life:	100,000 operations minimum
Electrical Life:	50,000 operations minimum
Nominal Operating Force:	1.18N
Contact Timing:	Nonshorting (break-before-make)
Angle of Throw:	26°

Materials & Finishes

Actuator:	Polyamide
Bushing Housing:	Polyamide
Case Housing:	Glass fiber reinforced polyamide
Support Bracket:	Phosphor bronze with tin plating
Movable Contact:	Phosphor bronze with gold plating
Stationary Contacts:	Brass with tin plating
Terminals:	Brass 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 ²) 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:	Automated alcohol based cleaning recommended, 5 minutes maximum. Do not use high-purity
-	alcohol (50% alcohol or more) or organic solvent. High alcohol solution can damage clear plastic.
	See Cleaning specifications in Supplement section.

Standards & Certifications

The B Series illuminated toggles 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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Touch



Series B

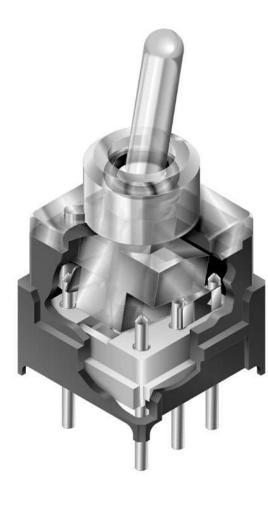
Distinctive Characteristics

LED provides maximum illumination to bushing and actuator, indicating actuator status in highly visible green, red, or amber for single color or red/green for bicolor. (Patent pending.)

Totally sealed body construction prevents contact contamination and allows time- and money-saving automated soldering and cleaning. Molded-in, epoxy sealed terminals lock out 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" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing.



Actual Size



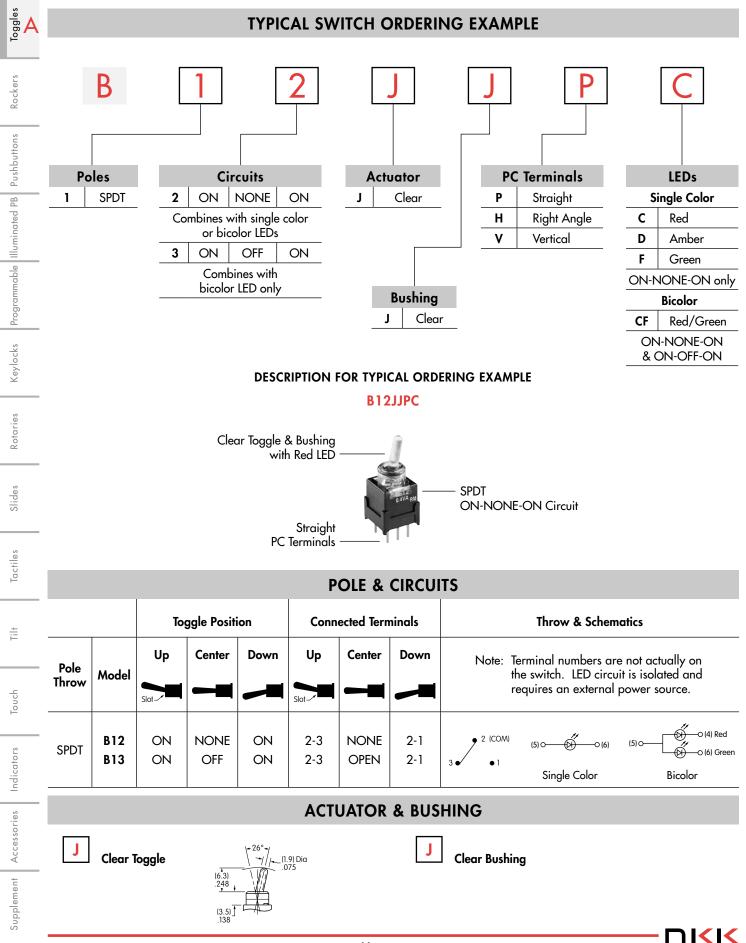
Toggles

Rotaries

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Series B



Subminiature Fully Illuminated Toggles

CHES

Series B

