

Add Brilliance to Any Application

One of the finest ways to showcase your control panel is to integrate any of NKK's outstanding illuminated switches. We have become leaders in the field for not only exceptional quality and dependability, but for the extensive lineup offered.

Illumination is featured in many of the actuation types: toggles, rockers, pushbuttons, programmables, slides and tactiles, with several of the series complemented by matching indicators. Creative panel design is without limits when incorporating from NKK's offerings of multiple mounting options, power levels, sizes of the switches, colors and brightness levels, and an array of other alternatives.

Skilled engineers are available to assist with design, support, and value added services. Many of the switches are ideal for legends offered in screen printing, pad printing and laser etching. Contact our experts and find how successful partnering can bring your project to life.

YB SERIES SHORT BODY PUSHBUTTON

Characteristics & Specifications

YB Series Miniature Pushbutton with Bicolor LED

- Square with snap-in mounting, red/green bicolor LED
- Round and rectangular snap-in mounting options available
- Full face illumination in bright red, amber or green LED; super bright white, green or blue LED; spot illuminated option
- Bezel-barrier combination prevents accidental actuation
- Snap-action contacts for shock resistance, long life and sensitive actuation
- Solder lug/.110" (2.8mm) quick connect terminals
- Epoxy sealed terminals lock out flux, dust, contaminants

Power Level: 3A @ 125V AC or 3A @ 250V AC

Contact Resistance: 50 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min; 1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 1,000,000 operations min for momentary circuit; 200,000 operations min for maintained circuit

Electrical Life: 100,000 operations min

Travel: Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

YB SERIES SHORT BODY PUSHBUTTON

Characteristics & Specifications

YB Series Miniature Pushbutton with Super Bright LED

- Round with 16mm bushing mounting, super bright LED
- Square or rectangular additional shape options
- Full face illumination in bright red, amber or green LED; super bright white, green or blue LED; spot illuminated option
- Bezel-barrier combination prevents accidental actuation
- Snap-action contacts for shock resistance, long life and sensitive actuation
- High density design gives behind panel depth of less than 1"
- Solder lug/.110" (2.8mm) quick connect terminals
- Epoxy sealed terminals lock out flux, dust, contaminants

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 100 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min; 1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 1,000,000 operations min for momentary circuit; 200,000 operations min for maintained circuit

Electrical Life: 100,000 operations min

Travel: Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

YB2 SERIES PANEL SEAL PUSHBUTTON

Characteristics & Specifications

YB2 Series Standard Size Pushbutton with Bright LED

- Round lens/diffuser with bright LED in red, amber or green
- Super bright LED options in white, green or blue
- Conforms to IP65 of IEC 60529 Standards
- Tamper resistant 19mm diameter actuator with black bezel
- Distinctive long stroke and light touch actuation for clear indication of circuit status; arc barrier protects against crossover
- Solder lug/.110" (2.8mm) quick connect terminals
- Epoxy sealed terminals lock out flux, dust, contaminants while securing and improving contact stability

Power Level: 3A @ 125V AC or 3A @ 250V AC

Contact Resistance: 50 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min; 1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 1,000,000 operations min for momentary circuit; 200,000 operations min for maintained circuit

Electrical Life: 100,000 operations min

Travel: Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

YB2 SERIES PANEL SEAL PUSHBUTTON

Characteristics & Specifications

YB2 Series Standard Size Pushbutton with Super Bright LED

- Round lens/diffuser, super bright LED in white, green or blue
- Bright LED options in red, amber or green
- Conforms to IP65 of IEC 60529 Standards
- Tamper resistant 19mm diameter actuator with black bezel
- Snap-action contact mechanism provides crisp actuation and clear circuit status; arc barrier protects against crossover
- Solder lug/.110" (2.8mm) quick connect terminals
- Epoxy sealed terminals lock out flux, dust, contaminants while securing and improving contact stability

Power Level: 3A @ 125V AC or 3A @ 250V AC

Contact Resistance: 50 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min; 1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 1,000,000 operations min for momentary circuit; 200,000 operations min for maintained circuit

Electrical Life: 100,000 operations min

Travel: Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

YB2 SERIES PANEL SEAL PUSHBUTTON

Characteristics & Specifications

YB2 Series Standard Size Pushbutton with Bright LED

- Square lens/diffuser with bright LED in red, amber or green
- Super bright LED options in white, green or blue
- Conforms to IP65 of IEC 60529 Standards
- Tamper resistant 18mm square actuator with black bezel
- Snap-action contact mechanism provides crisp actuation and clear circuit status; arc barrier protects against crossover
- Solder lug/.110" (2.8mm) quick connect terminals
- Epoxy sealed terminals lock out flux, dust, contaminants while securing and improving contact stability

Logic Level: 0.4VA max @ 28V AC/DC max (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 100 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min; 1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 1,000,000 operations min for momentary circuit; 200,000 operations min for maintained circuit

Electrical Life: 100,000 operations min

Travel: Pretravel .059" (1.5mm); Overtravel .059" (1.5mm); Total Travel .118" (3.0mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

LB SERIES SNAP-IN PUSHBUTTON

Characteristics & Specifications

LB Series Standard Size Pushbutton with Bright LED

- Round with snap-in mounting and bright LED in red, amber or green; super bright LED options in white, green or blue
- Full surface illumination with front panel relamping
- Spot illumination available in single and bicolor LEDs
- Square and rectangular snap-in mounting options available
- Compact switch design minimizes behind panel depth
- Stainless steel clips ensure secure mounting with a wide range of panel thicknesses
- Solder lug/.110" (2.8mm) quick connect terminals
- Epoxy sealed terminals lock out flux, dust, contaminants

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 100 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min;
1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 1,000,000 operations min for momentary circuit;
200,000 operations min for maintained circuit

Electrical Life: 100,000 operations min

Travel: Pretravel .059" (1.5mm); Overtravel .059" (1.5mm);
Total Travel .118" (3.0mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

LB SERIES PANEL SEAL PUSHBUTTON

Characteristics & Specifications

LB Series Standard Size Pushbutton with Super Bright LED

- Round with 22mm bushing mounting, super bright LED
- Full face illumination in bright red, amber or green LED; super bright options in white, green or blue LED
- Meets IP65 of IEC 60529 specifications
- Compact switch design minimizes behind panel depth
- Snap-action contact mechanism gives long electrical life and sensitivity of actuation
- Optional PCB adaptors available
- Solder lug/quick connect terminals
- Epoxy sealed terminals lock out flux, dust, contaminants

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 100 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min;
1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 1,000,000 operations min for momentary circuit;
200,000 operations min for maintained circuit

Electrical Life: 100,000 operations min

Travel: Pretravel .059" (1.5mm); Overtravel .059" (1.5mm);
Total Travel .118" (3.0mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

HB SERIES COMPACT PUSHBUTTON

Characteristics & Specifications

HB Series Subminiature Pushbutton with Super Bright LED

- Round with 8mm bushing, 9mm bezel, super bright LED
- Square body option available; fits common size panel cutout
- Full face illumination in bright red, amber or green LED; super bright white, green or blue LED; spot illuminated option
- Rear panel threaded mounting. Behind panel depth of less than an inch.
- Longer normally closed terminal facilitates wiring, soldering
- Solder lug terminals with .100" (2.54mm) spacing
- Molded-in terminals lock out flux, dust, contaminants

Power Level: 0.1A max @ 30V AC/DC

Contact Resistance: 50 milliohms max

Insulation Resistance: 100 megohms min @ 500V DC

Dielectric Strength: 500V AC min for 1 minute min

Mechanical Life: 100,000 operations min

Electrical Life: 50,000 operations min

Travel: Pretravel .087" (2.2mm); Overtravel .031" (0.8mm);
Total Travel .118" (3.0mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

HB2 SERIES AUDIO/VIDEO PUSHBUTTON

Characteristics & Specifications

HB2 Series Subminiature Pushbutton with Bicolor LED

- Full face illumination in red/green or red/yellow bicolor; simultaneous bicolor illumination produces amber
- Square, compact body design; cap with lens/diffuser
- Option of legends on cap or film insert
- Quiet actuation combined with crisp tactile feedback
- Sliding twin crossbar mechanism for unequalled logic-level reliability, contact stability, smooth detent actuation, long life
- Crimped power terminals ensure secure PCB mounting and prevent dislodging during soldering

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 80 milliohms max

Insulation Resistance: 500 megohms min @ 500V DC

Dielectric Strength: 500V AC min for 1 minute min

Mechanical Life: 100,000 operations min

Electrical Life: 100,000 operations min

Travel: Pretravel .051" (1.3mm); Overtravel .020" (0.5mm);
Total Travel .071" (1.8mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

LP01 SERIES SHORT BODY PUSHBUTTON

Characteristics & Specifications

LP01 Series Miniature Pushbutton with Spot Illumination

- Super bright LED spot illumination in red, amber or green
- 16mm bushing mounting with short body behind panel
- Smooth, slightly concave surface of cap designed to fit fingertip. Unique design and construction of cap prevents its removal and limits tampering.
- Snap-action contact mechanism enables crisp actuation and clear circuit status. Arc barrier protects against crossover.
- Solder lug/.110" (2.8mm) quick connect terminals

Power Level: 3A @ 125V AC or 3A @ 250V AC

Contact Resistance: 50 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min;
1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 500,000 operations min

Electrical Life: 50,000 operations min

Total Travel: .118" (3.0mm)

Operating Temperature Range: -10°C ~ +50°C (+14°F ~ +122°F)

LP01 SERIES SHORT BODY PUSHBUTTON

Characteristics & Specifications

LP01 Series Miniature Pushbutton with Bright LED

- Bright LED illumination in red, amber or green through translucent white cap
- Snap-in mounting with short body behind panel
- Unique design and construction of cap prevents its removal and limits tampering
- Snap-action contact mechanism enables crisp actuation and clear circuit status. Arc barrier protects against crossover.
- Solder lug/.110" (2.8mm) quick connect terminals

Power Level: 3A @ 125V AC or 3A @ 250V AC

Contact Resistance: 50 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min;
1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 500,000 operations min

Electrical Life: 50,000 operations min

Total Travel: .118" (3.0mm)

Operating Temperature Range: -10°C ~ +50°C (+14°F ~ +122°F)

UB SERIES LOW PROFILE PUSHBUTTON

Characteristics & Specifications

UB Series Miniature Pushbutton with Super Bright LED

- Square PCB mount with super bright LED; rectangular option
- Full face illumination in bright red, amber or green LED; super bright in white, green or blue LED
- Alternating standard or custom legends in red/green and amber/blue; brilliant uniform illumination
- Snap-in mounting choices: square and rectangular
- Snap-acting contact mechanism provides sensitive actuation with audible feedback; quick-make, quick break limits arcing and extends electrical life
- Terminals are epoxy sealed to lock out flux and contaminants

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 100 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min;
1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 1,000,000 operations min

Electrical Life: 200,000 operations min

Travel: Pretravel .067" (1.7mm); Overtravel .024" (0.6mm);
Total Travel .091" (2.3mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

UB2 SERIES LOW PROFILE PUSHBUTTON

Characteristics & Specifications

UB2 Series Miniature Pushbutton with Alternating Legends

- Super bright bicolor LED in red/green or amber/blue
- Cap options include sculptured or flat with clears lens, filter
- Small behind panel depth for snap-in mounting in tight area
- Snap-acting contact mechanism provides sensitive actuation with audible feedback; quick-make, quick-break characteristic limits arcing and prolongs electrical life
- Latchdown mechanism, independent of switching mechanism, gives stability and reliability plus indication of circuit status
- Solder lug terminals are epoxy sealed to lock out flux, solvents, other contaminants

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 100 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min;
1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 200,000 operations min

Electrical Life: 200,000 operations min

Travel: Pretravel .067" (1.7mm); Overtravel .024" (0.6mm);
Total Travel .091" (2.3mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

CWSB SERIES NEON POWER ROCKER

Characteristics & Specifications

CWSB Series Miniature Power Rocker with Neon Illumination

- Full face neon illumination in red, amber or green choices
- Neon lamp suited to 125V AC applications; built-in resistor for direct connection to 125V AC power source
- 9-amp electrical capacity in compact body
- Low cost molded rocker with front panel, snap-in mounting assures labor-saving installation
- Single-break, snap-acting contact mechanism delivers smooth actuation and audible feedback
- Quick connect .187" (4.75mm) terminals may be used with connectors. Offset alignment gives outstanding insulation resistance and dielectric strength

Power Level: 9A @ 125V AC

Contact Resistance: 20 milliohms max

Insulation Resistance: 500 megohms min @ 500V DC

Dielectric Strength: 1,500V AC min between contacts for 1 minute min;
3,000V AC min between contacts & case for 1 minute min

Mechanical Life: 30,000 operations min

Electrical Life: 10,000 operations min

Angle of Throw: 30°

Operating Temperature Range: -20°C ~ +85°C (-4°F ~ +185°F)

M2100 SERIES LED TIPPED TOGGLE

Characteristics & Specifications

M2100 Series Miniature Toggle with LED Tipped Actuator

- Bicolor LED of red/green, plus single color options in red, yellow and green
- LED can operate synchronously with switching operation; other option is independently from switching operation
- Stainless steel frame resists corrosion
- Antijamming feature protects contacts from damage due to excessive downward force on the toggle
- High torque bushing prevents bushing from rotation or separation from metal frame during installation
- 1/4-40 threaded bushing and solder lug terminals

Power Level: 6A @ 125V AC or 3A @ 250V AC

Contact Resistance: 10 milliohms max

Insulation Resistance: 1,000 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min;
1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 50,000 operations min

Electrical Life: 25,000 operations min

Angle of Throw: 20°

Operating Temperature Range: -10°C ~ +55°C (+14°F ~ +131°F)

MLW SERIES SNAP-IN ROCKER

Characteristics & Specifications

MLW Series Miniature Rocker with Single Element LED

- Single element LED colors in red, yellow or green; neon option available with 110-volt lamp
- LED rocker cap choices with diffuser and black rocker base or sculptured rocker; various other types of caps and colors
- Standard or large bezels in several color choices
- Stainless steel retaining clips securely hold switches over a range of panel thicknesses, even during exposure to vibration
- Space conserving front panel mounting with minimum behind panel dimension of .902" (22.9mm)
- Solder lug terminals are epoxy sealed to lock out contaminants; extended lamp terminal for ease of wiring

Power Level: 5A @ 125V AC or 3A @ 250V AC

Contact Resistance: 10 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min;
1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 30,000 operations min

Electrical Life: 10,000 operations min

Angle of Throw: 24° for On-None-(On); 28° for all other circuits

Operating Temperature Range: -10°C ~ +50°C (+14°F ~ +122°F)

MS SERIES SLIDE

Characteristics & Specifications

MS Series Miniature Slide with Illuminated Top of Actuator

- Bright LED illumination in red, yellow or green choices
- Solder lug terminals with 2-screw flange frame; other mounting option: straight PC terminals
- Antijamming design protects contacts from damage due to excessive downward force on actuator
- High internal barriers between poles and insulating sheet between case and actuator block add protection to contacts
- Prominent external insulating barriers increase insulation resistance and dielectric strength
- Epoxy sealed terminals prevent entry of contaminants

Power Level: 6A @ 125V AC or 3A @ 250V AC

Contact Resistance: 10 milliohms max

Insulation Resistance: 1,000 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min;
1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 50,000 operations min

Electrical Life: 25,000 operations min

Total Travel: .087" (2.2mm)

Operating Temperature Range: -15°C ~ +60°C (+5°F ~ +140°F)

TL SERIES FULLY ILLUMINATED TOGGLE

Characteristics & Specifications

TL Series Miniature Toggle with Super Bright LED

- Toggle length .689" (17.5mm) with silver contacts; option .433" (11.0mm) toggle length with gold contacts
- Translucent toggle with super bright LED; super bright colors available in white, green or blue; bright LED colors in red, amber or green
- Antistatic material used for toggle withstands 20 kilovolts electrostatic discharge
- Panel seal model conforms to IP65 of IEC 60529 Standards, achieved with optional exterior o-ring
- UL94V-0 flammability rating for switch base
- Solder lug terminals are molded in and epoxy sealed to lock out flux, dust, other contaminants

Power Level: 6A @ 125V AC or 3A @ 250V AC

Contact Resistance: 10 milliohms max – silver; 20 milliohms max – gold

Insulation Resistance: 1,000 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min; 1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 50,000 operations min

Electrical Life: 25,000 operations min for silver; 50,000 operations min for gold

Angle of Throw: 25°

Operating Temperature Range: -10°C ~ +55°C (+14°F ~ +131°F)

KP SERIES COMPACT PUSHBUTTON

Characteristics & Specifications

KP Series Miniature Pushbutton with Super Bright RGB LED

- RGB provides vibrant full color spectrum in 4-pin termination
- Shorter stroke option of .138" (3.5mm) with tactile actuation; nontactile and tactile/audible actuation choices available
- Longer plunger option (11.6mm) accommodates 2 cap sizes in several styles; caps consist of clear lens and white diffuser
- Bicolor alternating legends in red/green or amber/blue; standard and custom alternating legends
- Compact design, height of .906" (23.0mm) above PC board
- Straight PC terminals; twin contacts with gold plating assure high reliability, long life of 5,000,000 operations minimum

Low Level: 100mA max @ 12V DC

Contact Resistance: 200 milliohms max

Insulation Resistance: 100 megohms min @ 250V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min; 1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 5,000,000 operations min

Electrical Life: 5,000,000 operations min

Travel: Pretravel .091" (2.3mm); Overtravel .047" (1.2mm); Total Travel .138" (3.5mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

JF SERIES PROCESS SEALED TACTILE

Characteristics & Specifications

JF Series Subminiature Ultra-Thin Tactile

- Spot illumination with red, yellow or green LED; full face illumination options available in red, yellow or green LEDs
- Round actuator with other choices in square or sculptured
- Extremely low profile .224" (5.7mm) from PCB to top of switch
- Rubber seal construction prevents contact contamination, permits automated soldering and cleaning
- Minimal operating force, short stroke for light touch operation
- Crisp tactile and audible feedback positively indicates circuit transfer, assures high reliability and long life
- Crimped PC terminals facilitate secure mounting, prevent dislodging during wave soldering

Low/Logic Level: 50mA @ 24V DC

Contact Resistance: 50 milliohms max

Insulation Resistance: 500 megohms min @ 250V DC

Dielectric Strength: 250V AC min for 1 minute min

Mechanical Life: 500,000 operations min

Electrical Life: 500,000 operations min

Total Travel: Flush Actuator .016" (0.4mm); Sculptured Actuators .031" (0.8mm)

Operating Temperature Range: -25°C ~ +70°C (-13°F ~ +158°F)

B SERIES FULLY ILLUMINATED TOGGLE

Characteristics & Specifications

B Series Subminiature Toggle with Bicolor LED

- Clear actuator and bushing illuminated with red/green bicolor LED; red, amber or green in single color options
- Highly visible actuator status with maximum illumination
- Totally sealed body construction prevents contact contamination and allows automated soldering and cleaning
- STC contact mechanism implements smoother, positive detent actuation, increased contact stability, logic-level reliability
- .100" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing
- Molded-in epoxy sealed terminals lock out flux, dust, other contaminants

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 50 milliohms max

Insulation Resistance: 500 megohms min @ 500V DC

Dielectric Strength: 500V AC min for 1 minute min

Mechanical Life: 100,000 operations min

Electrical Life: 50,000 operations min

Angle of Throw: 26°

Operating Temperature Range: -25°C ~ +55°C (-13°F ~ +131°F)

JB SERIES PROCESS SEALED TACTILE

Characteristics & Specifications

JB Series Subminiature Tactile with Bright LED

- Bright full face illumination in red, yellow or green LEDs
- Standard, shorter actuator with flat cap of clear lens and diffuser in choice of colors
- Extended actuator with higher operating force option gives more pronounced operating feel
- Dome contact for crisp tactile feedback, positively indicating circuit transfer, assuring high reliability and long life
- Rubber seal construction prevents contact contamination, allows automated soldering and cleaning
- Molded-in slanted terminals ensure secure mounting; spacing conforms to standard .100" (2.54mm) PCB grid

Low/Logic Level: 50mA @ 24V DC max for Standard Operating Force;
125mA @ 24V DC max for High Operating Force models

Contact Resistance: 50 milliohms max

Insulation Resistance: 500 megohms min @ 250V DC

Dielectric Strength: 250V AC min for 1 minute min

Mechanical Life: 5,000,000 operations min for Standard Operating Force;
1,000,000 operations min for High Operating Force

Electrical Life: 5,00,000 operations min for Standard Operating Force;
1,000,000 operations min for High Operating Force

Total Travel: Standard Operating Force Models .010" (.254mm)
High Operating Force Models .012" (.300mm)

Operating Temperature Range: -25°C ~ +70°C (-13°F ~ +158°F)

G SERIES FULLY ILLUMINATED TOGGLE

Characteristics & Specifications

G Series Ultra-miniature Toggle with Bicolor LED

- Red/green bicolor LED fully illuminates actuator
- Single color LED options in red, amber or green
- Ultra-miniature size for high density mounting; extremely light weight ideal for use in handheld equipment
- Totally sealed body construction prevents contact contamination and allows automated soldering and cleaning
- STC contact mechanism implements smoother, positive detent actuation, increased contact stability, logic-level reliability
- Round PC terminals facilitate easier through-hole mounting on PC boards; .100" x .100" (2.54mm x 2.54mm) spacing conforms to standard PC board grid spacing

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 80 milliohms max

Insulation Resistance: 500 megohms min @ 500V DC

Dielectric Strength: 500V AC min for 1 minute min

Mechanical Life: 100,000 operations min

Electrical Life: 100,000 operations min

Angle of Throw: 28°

Operating Temperature Range: -25°C ~ +55°C (-13°F ~ +131°F)

SS SERIES ILLUMINATED SLIDE

Characteristics & Specifications

SS Series Ultra-miniature Slide with Illuminated Tip of Actuator

- Bright LED illumination at tip of actuator in red, yellow or green
- Top actuation with compact dimensions and low profile allow high density mounting and close stacking of PC boards
- Side actuation option lends to flexibility of board design
- Crisp actuation positively indicates circuit status
- Loosening of terminals due to high soldering temperatures prevented by double molded thermoset base and thermo-plastic housing
- .100" x .100" (2.54mm x 2.54mm) terminal spacing for standard PC board grid; insert molded terminals lock out flux, solvents and other contaminants

Power Level: 0.1A @ 30V DC

Contact Resistance: 20 milliohms max

Insulation Resistance: 100 megohms min @ 500V DC

Dielectric Strength: 500V AC min for 1 minute min

Mechanical Life: 10,000 operations min

Electrical Life: 10,000 operations min

Total Travel: .079" (2.0mm)

Operating Temperature Range: -15°C ~ +60°C (+5°F ~ +140°F)

GW SERIES FULLY ILLUMINATED PADDLE

Characteristics & Specifications

GW Series Ultra-miniature Paddle with Bicolor LED

- Fully illuminated clear actuator with red/green bicolor LED
- Highly visible status indication with single color LED options: red, amber or green
- Specially designed switching mechanism provides crisp actuation feedback to positively indicate circuit transfer
- STC contact mechanism delivers smoother, positive detent actuation, increased contact stability, logic-level reliability
- Straight PC terminals; also, right angle and vertical options
- .100" x .100" (2.54mm x 2.54mm) terminal spacing for standard PC board grid; insert molded terminals lock out flux, solvents and other contaminants

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 80 milliohms max

Insulation Resistance: 500 megohms min @ 500V DC

Dielectric Strength: 500V AC min for 1 minute min

Mechanical Life: 50,000 operations min

Electrical Life: 50,000 operations

Angle of Throw: 28°

Operating Temperature Range: -25°C ~ +55°C (-13°F ~ +131°F)

GB SERIES ILLUMINATED PLUNGER

Characteristics & Specifications

GB Series Ultra-miniature Pushbutton with Single Color LED

- Fully illuminated plunger with red, amber or green choices
- Ultra-miniature size for high density mounting; extremely light weight ideal for use in handheld equipment
- Totally sealed body construction prevents contact contamination and allows automated soldering and cleaning
- STC contact mechanism implements smoother, positive detent actuation, increased contact stability, logic-level reliability
- Insert-molded PC terminals lock out flux, solvents, contaminants; .100" x .100" (2.54mm x 2.54mm) spacing conforms to standard PC board grid spacing

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 80 milliohms max

Insulation Resistance: 500 megohms min @ 500V DC

Dielectric Strength: 500V AC min for 1 minute min

Mechanical Life: 50,000 operations min

Electrical Life: 50,000 operations min

Travel: Pretravel .035" (0.9mm); Overtravel .008" (0.2mm);
Total Travel .043" (1.1mm)

Operating Temperature Range: -25°C ~ +55°C (-13°F ~ +131°F)

NP01 SERIES SMOOTH ACTUATION PUSHBUTTON

Characteristics & Specifications

NP01 Series Subminiature Pushbutton with Bicolor LED

- Red/green bicolor LED and alternating legends; also available in amber/blue bicolor LED
- Single LED choices in red, amber or green; entire cap is fully illuminated
- Standard operating force (1.5N); high operating force option (2.5N)
- Gold plated contacts provide high reliability
- Compact design with .492" (12.5mm) from PC board to top of cap
- Terminals are crimped for secure mounting; molded-in feature prevents entry of flux, solvents and other contaminants

Logic Level: 0.4VA max @ 28V AC/DC max
(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Contact Resistance: 50 milliohms max

Insulation Resistance: 500 megohms min @ 250V DC

Dielectric Strength: 250V AC min between contacts for 1 minute min

Mechanical Life: 500,000 operations min

Electrical Life: 500,000 operations min

Stroke: .059" (1.5mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)

UB2 SERIES LOW PROFILE PUSHBUTTON

Characteristics & Specifications

UB2 Series Miniature Pushbutton with Bicolor LED

- Alternating legends with sculptured cap, super bright bicolor LED in red/green; amber/blue bicolor LED also available
- Single color LEDs in bright red, amber or green; super bright LEDs in white, green or blue; cap options in flat, beveled or sculptured types
- PCB mountability combined with short body enables use in compact applications; snap-in mounting option available with solder lug terminals
- Snap-acting contact mechanism delivers sensitive actuation with audible feedback; quick-make, quick-break feature limits arcing and extends electrical life
- Epoxy sealed terminals prohibit flux, solvents, contaminants

Power Level: 5A @ 125V AC or 5A @ 250V AC

Contact Resistance: 50 milliohms max

Insulation Resistance: 200 megohms min @ 500V DC

Dielectric Strength: 1,000V AC min between contacts for 1 minute min;
1,500V AC min between contacts & case for 1 minute min

Mechanical Life: 1,000,000 operations min for momentary;
200,000 operations min for alternate action

Electrical Life: 10,000 operations min

Travel: Pretravel .067" (1.7mm); Overtravel .024" (0.6mm);
Total Travel .091" (2.3mm)

Operating Temperature Range: -25°C ~ +50°C (-13°F ~ +122°F)
