

## A Variety of Keylock Switches

NKK's distinctive line of keylock switches is offered in high, medium and low security levels, and one is sure to accommodate your application requirement. Our selected presentation contains only a partial offering of keylocks, representing various bushing sizes and types of terminals, plus PC board, panel mount or snap-in options. The antistatic and process sealed models are featured within an array of power levels and sizes in standard, miniature and subminiature.

NKK Switches is at the forefront of the electromechanical switch market for product offerings of superior quality and selection as well as stellar customer service. Contact us for assistance from selection to implementation, solutions and value added services, and you'll see that our quality is exceeded only by our expertise and drive to transcend your expectations.

### CKL13EFW01-003 HIGH SECURITY KEYLOCK

## Characteristics & Specifications

#### CK Series Keylock with 19mm Diameter Bushing

- Rugged, die cast housing designed for higher security
- Flat style key is supplied with each switch and reversible for easier setting
- Vertically rotating switching mechanism combines with sliding contacts for high reliability and long operating life
- Interior construction provides seal for contact area
- Solder lug, epoxy sealed terminals prevent entry of flux and other contaminants
- High dielectric strength of 1,500 volts between contacts and case

Power Level: 3A @ 250V AC
Contact Resistance: 20 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: 30,000 cycles min
Electrical Life: 10,000 cycles min
Nominal Operating Torque: .05Nm (7.08 oz•in)
Angle of Throw: 45° (3-position)
Operating Temperature Range: -25°C ~ +70°C (-13°F ~ +158°F)

### CKL12BTW01-008 HIGH SECURITY KEYLOCK

## Characteristics & Specifications

#### CK Series Keylock with 19mm Diameter Bushing

- Rugged, die cast housing designed for higher security
- Tubular style key is supplied with each switch; press inward to actuate
- Vertically rotating switching mechanism combines with sliding contacts for high reliability and long operating life
- Interior construction provides seal for contact area
- Solder lug, epoxy sealed terminals prevent entry of flux and other contaminants
- High dielectric strength of 1,500 volts between contacts and case

Power Level: 3A @ 250V AC
Contact Resistance: 20 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: 30,000 cycles min
Electrical Life: 10,000 cycles min
Nominal Operating Torque: .07Nm (9.91 oz•in)
Angle of Throw: 90° (2-position)
Operating Temperature Range: -25°C ~ +70°C (-13°F ~ +158°F)

## SK12ADW01-007/UL MEDIUM SECURITY KEYLOCK

### Characteristics & Specifications

#### SK Series Keylock with 12mm Diameter Bushing

- Brass key with shiny nickel finish provided with each switch
- Short behind panel dimension of only 27.0mm (1.063")
- 12mm diameter threaded bushing enables easy panel cutout preparation and high density mounting
- Detent mechanism gives crisp, positive action for accurate switch setting
- Epoxy sealed solder lug terminals prevent entry of flux and other contaminants
- Dust resistant interior construction protects contacts

Power Level: 3A @ 125V 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: 30,000 cycles min

Electrical Life: 10,000 cycles min

Nominal Operating Torque: .026Nm (.234 lb•in)

Angle of Throw: 90° (2-position)

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

## SK14DG30 PROCESS SEALED KEYLOCK

### Characteristics & Specifications

#### SK Series Right Angle Keylock with 12mm Diameter Bushing

- Sealed body construction and disposable boot (supplied with each switch) protect contacts, allow automated processing
- Right angle PC terminals are molded in, sealing out flux, solvents and other contaminants
- Two antistatic plastic handle keys provided with each switch
- 12mm smooth bushing and space-saving short body size
- Detent mechanism, with spring-operated steel ball, furnishes crisp, positive action for accurate switch setting
- Bifurcated, self-wiping contact mechanism provides unequalled logic-level reliability and smoother actuation

Logic Level: 0.4VA max @ 28V AC/DC max

Contact Resistance: 80 milliohms max

Insulation Resistance: 100 megohms min @ 500V DC

Dielectric Strength: 500V AC min for 1 minute min

Mechanical Life: 30,000 cycles min

Electrical Life: 10,000 cycles min

Nominal Operating Torque: .020Nm (.182 lb•in)

Angle of Throw: 45° (3-position)

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

## CKM12BFW01-006 HIGH SECURITY KEYLOCK

### Characteristics & Specifications

#### CK Series Keylock with 16mm Diameter Bushing

- High insulating material withstands over 15 kilovolts of electrostatic discharge, providing antistatic feature
- Flat style key supplied with each switch and is reversible for easier setting
- Vertically rotating switching mechanism combines with sliding contacts for high reliability and long operating life
- Interior construction provides seal for contact area
- Solder lug, epoxy sealed terminals hinder entry of flux and other contaminants
- High dielectric strength of 1,500 volts between contacts and case

Power Level: 3A @ 250V AC

Contact Resistance: 20 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: 30,000 cycles min

Electrical Life: 10,000 cycles min

Nominal Operating Torque: .04Nm (5.67 oz•in)

Angle of Throw: 90° (2-position)

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

## SK12AAW01 LOW SECURITY KEYLOCK

### Characteristics & Specifications

#### SK Series Keylock with 12mm Diameter Bushing

- Easy panel cutout preparation and high density mounting
- Short behind panel dimension of only 27.0mm (1.063")
- Two chrome plated keys supplied with each switch
- High dielectric strength of 1,500 volts between contacts and case
- Detent mechanism gives crisp, positive action for accurate switch setting
- Dust resistant interior construction protects contacts
- Epoxy sealed solder lug terminals impede entry of flux and other contaminants

Power Level: 3A @ 125V 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: 30,000 cycles min

Electrical Life: 10,000 cycle min

Nominal Operating Torque: .026Nm (.234 lb•in)

Angle of Throw: 90° (2-position)

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

## SK15BG13 PROCESS SEALED KEYLOCK

### Characteristics & Specifications

#### SK Series Keylock with 12mm Diameter Bushing & Bracket

- Sealed body construction plus disposable boot protect contacts and allow automated processing
- Two antistatic plastic handle keys provided with each switch
- Straight PC terminals with bracket; crimped bracket legs prevent dislodging during automated wave soldering
- 12mm smooth bushing and space-saving short body size
- Detent mechanism with spring-operated steel ball delivers crisp, positive action for accurate switch setting
- Bifurcated, self-wiping contact mechanism provides unequaled logic-level reliability and smoother actuation

Logic Level: 0.4VA max @ 28V AC/DC max

Contact Resistance: 80 milliohms max

Insulation Resistance: 100 megohms min @ 500V DC

Dielectric Strength: 500V AC min for 1 minute min

Mechanical Life: 30,000 cycles min

Electrical Life: 10,000 cycles min

Nominal Operating Torque: .026Nm (.234 lb•in)

Angle of Throw: 90° (2-position)

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

## SK13AEG30 ANTISTATIC PROCESS SEALED KEYLOCK

### Characteristics & Specifications

#### SK Series Right Angle Keylock with 9.0mm Diameter Bushing

- Subminiature size allows high density mounting
- Housing and bushing of high insulating material provide antistatic protection withstanding 15+ kilovolts of electrostatic discharge
- Two polyacetal tubular keys supplied with each switch
- Totally sealed body construction with internal o-ring, gasket between base and housing, and insert-molded terminals, gives protection for automated processing techniques
- Crimped bracket legs ensure secure PCB mounting, prevent dislodging during automated wave soldering
- Molded-in PC terminals prevent entry of flux and other contaminants

Logic Level: 0.4VA max @ 28V AC/DC max

Contact Resistance: 100 milliohms max

Insulation Resistance: 100 megohms min @ 500V DC

Dielectric Strength: 500V AC min for 1 minute min

Mechanical Life: 30,000 cycles min

Electrical Life: 20,000 cycles min

Nominal Operating Torque: .0002Nm (.0017 lb•in)

Angle of Throw: 45° (3-position)

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

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