



16mm & 19mm High Security 3A Power Level Solder Lug **Bushing Mount**



SK SeriesF9

12mm Low & Medium Security 3A & 1A Power Level Solder Lug **Bushing Mount**



SK SeriesF15

Antistatic Process Sealed Subminiature 0.4VA Logic Level Straight & Right Angle PC **PCB Mount**



SK Series F19

Process Sealed 0.4VA Logic Level Straight & Right Angle PC PCB Mount



SK SeriesF25

Antistatic Snap-in 0.4VA Logic Level Solder Lug Snap-in Mount



Supplement | Accessories

General Specifications

Electrical Capacity (Resistive Load)

Power Level: 3A @ 250V AC

Other Ratings

Contact Resistance: 20 milliohms maximum

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

Dielectric Strength: 1,000V AC minimum between contacts for 1 minute minimum;

1,500V AC minimum between contacts & case for 1 minute minimum

Mechanical Life: 30,000 cycles minimum Electrical Life: 10,000 cycles minimum

Static Capability: Withstands 15 kilovolts minimum ESD minimum (for CKM models only)

Nominal Operating Torque: 16mm Bushing (CKM models):

0.04Nm (5.67 oz•in) for Flat Key 0.08Nm (11.33 oz•in) for Tubular Key 19mm Bushing (CKL models): 0.05Nm (7.08 oz•in) for Flat Key 0.07Nm (9.91 oz•in) for Tubular Key

Break-before-make **Contact Timing:**

90° for 2-position & 45° for 3-position Angle of Throw:

Materials & Finishes

Keys for CKM: Brass with nickel plating with ABS handle **Keys for CKL:** Brass with nickel plating for tubular key; brass with chrome plating for flat key

Glass fiber reinforced PBT for CKM models; Housing/Bushing:

zinc alloy with chrome plating for CKL

LCP (Liquid Crystal Polymer) Base: **Contact Terminals:** Copper with silver plating **Common Terminals:** Copper with silver plating

Movable Contactor: Copper **Movable Contacts:** Silver

Environmental Data

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

> 90 ~ 95% humidity for 240 hours @ 40°C (104°F) for CKM; **Humidity:** $90 \sim 95\%$ humidity for 96 hours @ 40° C (104° F) for CKL

Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm for CKM or 0.7mm for CKL traversing the

frequency range & returning in 1 minute; 3 right angled directions for 2 hours

50G (490m/s²) acceleration for CKM; 30G (294m/s²) acceleration for CKL; (CKM & CKL tested Shock:

in 6 right angled directions, with 5 shocks in each direction)

Installation

Mounting Torque: 1.5 Nm (13.28 lb•in) maximum

Soldering Time & Temperature: Manual Soldering: See Profile A in Supplement section.



Distinctive Characteristics High insulating material for 16mm CKM models withstands over 15 kilovolts of electrostatic discharge, thus providing antistatic feature.

Rugged, die cast housing 19mm CKL models designed for higher security requirements.

Vertically rotating switching mechanism combines with self-cleaning sliding contacts for high reliability and long operating life.

16mm and 19mm diameter bushings available.

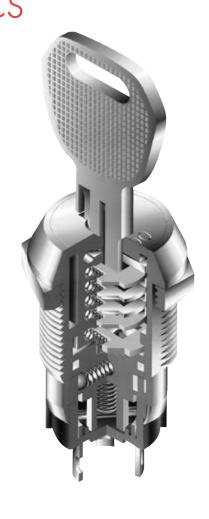
CKL and CKM on-off-on models with tubular keys have push-and-lock mechanism which allows contactor to drop and slide over stationary contacts.

Available in both flat and tubular key styles; flat key is reversible for easier setting.

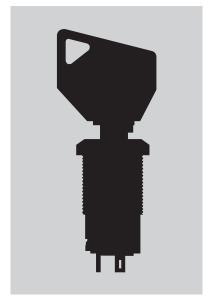
Epoxy sealed terminals prevent entry of flux and other contaminants.

Interior construction provides seal for contact area.

High dielectric strength of 1,500 volts between contacts and case.



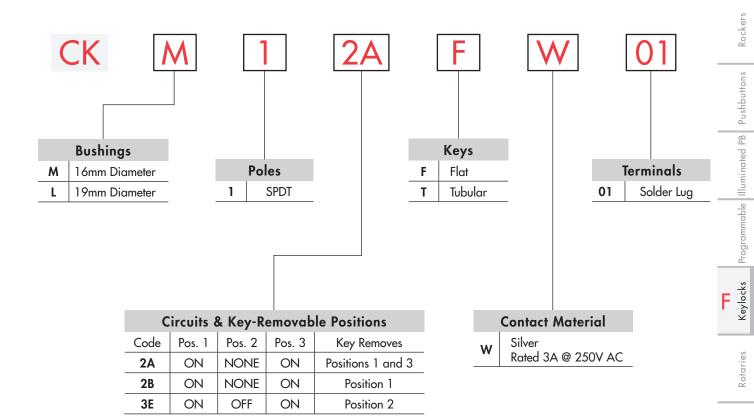
Actual Size CKM with Tubular Key





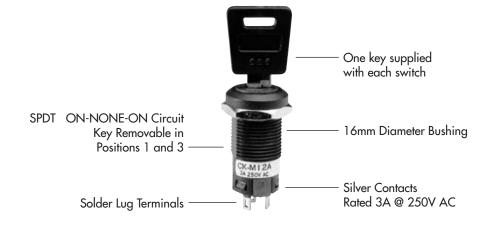
Toggles

TYPICAL SWITCH ORDERING EXAMPLE



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

CKM12AFW01



POLES, CIRCUITS & KEY-REMOVABLE POSITIONS										
Pole &		Key Positions			Connected Terminals (Terminal numbers are on switch)				 = Key Removable = Not Removable	
Throw	Model	Pos 1	Pos 2	Pos 3	Pos 1	Pos 2	Pos 3	Schematic	V = Maximum Arc	
SPDT	CKM12A CKL12A	ON	NONE	ON	COM-1		COM-2	COM	POS 1 • 3	
SPDT	CKM12B CKL12B	ON	NONE	ON	COM-1		COM-2	1 2	POS 1 • 3	
SPDT	CKM13E CKL13E	ON	OFF	ON	COM-1	OPEN	COM-2	OPP 2	POS 1 0 3	

KEYS

Flat Key

AT4147 for CKM 16mm

Brass with Nickel Plating key base & ABS key handle AT4153 for CKL 19mm

Brass with Chrome Plating (crosshatch texture on handle)

One key provided with each switch (no master key available) For ordering additional keys, indicate the same key number that is engraved on the face of your switch.

Randomly assigned key number (001 through 010 for CKM models & 001 through 025 for CKL models).

Typical Key Ordering Example: AT4153-001



Tubular Key

(must be pressed inward to actuate)

AT4146 for CKM 16mm

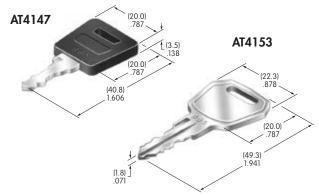
Brass with Nickel Plating key base & ABS key handle AT4152 for CKL 19mm

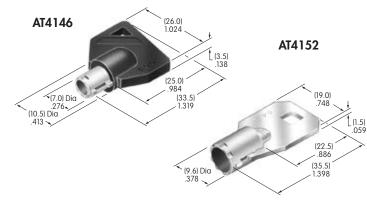
Brass with Nickel Plating (smooth)

One key provided with each switch (no master key available) For ordering additional keys, indicate the same key number that is engraved on the face of your switch.

Randomly assigned key number (001 through 025 for CKM models & 001 through 050 for CKL models).

Typical Key Ordering Example: AT4146-001





CONTACT MATERIALS, RATINGS & TERMINALS

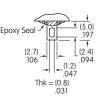


Silver over Silver Power Level 3A @ 250V AC



Solder Lug Terminals



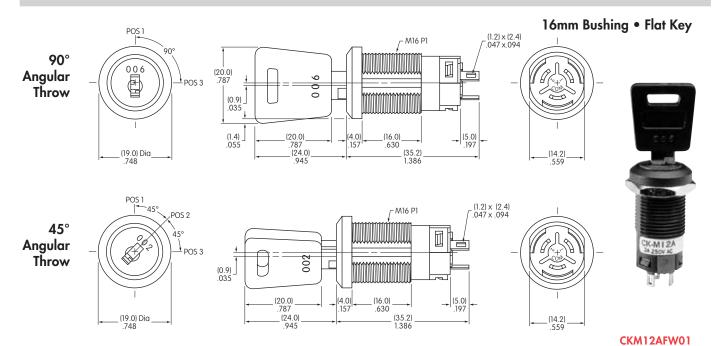




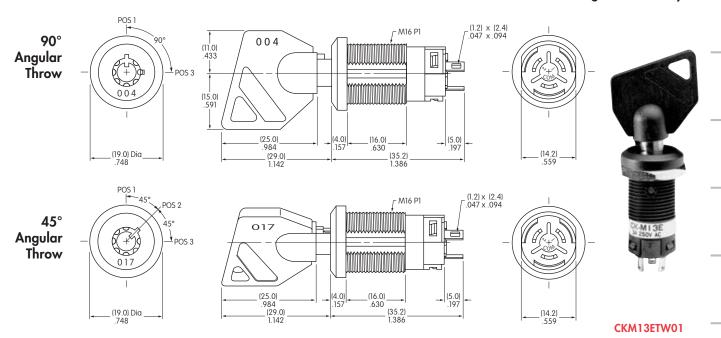


(1.4) .055

TYPICAL SWITCH DIMENSIONS

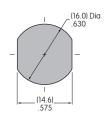


16mm Bushing • Tubular Key



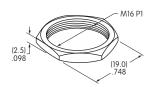
PANEL CUTOUT & STANDARD HARDWARE FOR 16MM BUSHING

Maximum Effective Panel Thickness: .469" (11.9mm)



AT016 16mm Hex Mounting Nut for CKM

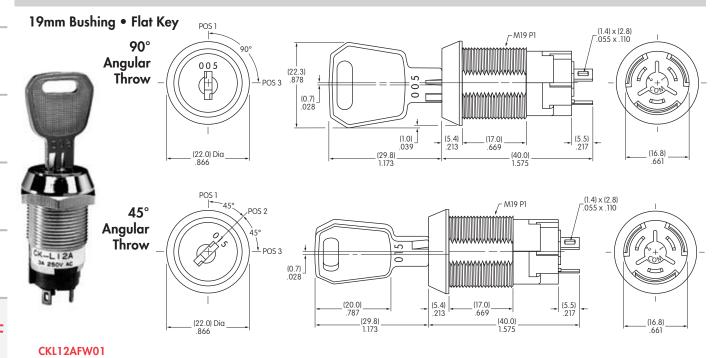
1 included with each switch Steel with nickel plating

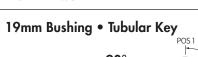


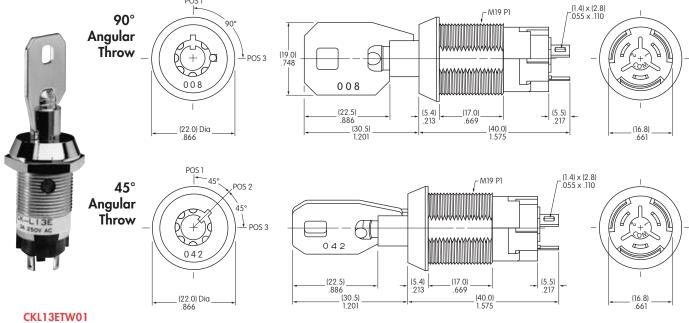
Slides

Touch

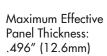
TYPICAL SWITCH DIMENSIONS

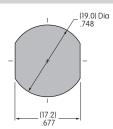






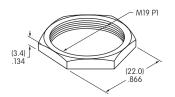
PANEL CUTOUT & STANDARD HARDWARE FOR 19MM BUSHING





AT019 19mm Hex Mounting Nut for CKL

1 included with each switch Steel with nickel plating





General Specifications

Electrical Capacity (Resistive Load)

Power Level (silver): 3A @ 125V AC for low & medium security; 1A @ 250V AC for low security

Other Ratings

Contact Resistance: 10 milliohms maximum

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

Dielectric Strength: 1,000V AC minimum between contacts for 1 minute minimum;

1,500V AC minimum between contacts & case for 1 minute minimum

Mechanical Life: 30,000 cycles minimum **Electrical Life:** 10,000 cycles minimum

.026Nm (.234 lb•in) for low & medium security **Nominal Operating Torque:**

> Break-before-make **Contact Timing:**

Angle of Throw: 90° for 2-position & 45° for 3-position

Materials & Finishes

Key: Zinc alloy with chrome plating (matte) for low security models;

brass with nickel plating (shiny) for medium security models Zinc alloy with chrome plating (matte) for low security models;

zinc alloy with chrome plating (shiny) for medium security models Housing/Bushing: Zinc alloy with chrome plating (matte) for low security models;

zinc alloy with chrome plating (shiny) for medium security models

Phenolic resin (thermoset) Base:

Movable Contactor: Silver

Tumbler Barrel:

Silver capped copper with silver plating **Stationary Contacts:**

Copper or brass with silver plating Terminals:

Environmental Data

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

> 90 ~ 95% humidity for 96 hours @ 40°C (104°F) **Humidity:**

Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning

in 1 minute; 3 right angled directions for 2 hours

Shock: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

1.5Nm (13.28 lb•in) maximum **Mounting Torque:**

Soldering Time & Temperature: Manual Soldering: See Profile A in Supplement section.

Standards & Certifications

File No. E44145 - Recognized only when ordered with marking on switch.

Add "/U" or "/CUL" to end of part number to order UL recognized switch. All low security models recognized at 3A @ 125V AC or 1A @ 250V AC

& all medium security models recognized at 3A @ 125V AC

CSA: File No. 023535_0_000 - Certified only when ordered with marking on switch.

Add "/C" to end of part number to order CSA certified switch.

All low security models certified at 3A @ 125V AC or 1A @ 250V AC

Distinctive Characteristics

12mm diameter bushing for easy panel cutout preparation and high density mounting.

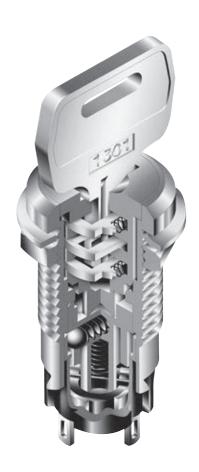
Epoxy sealed terminals prevent entry of flux and other contaminants.

Short behind panel dimension - only 1.063" (27.0mm).

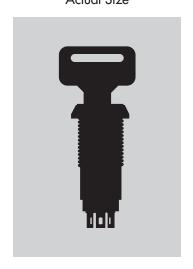
High dielectric strength of 1,500 volts between contacts and case.

Detent mechanism gives crisp, positive action for accurate switch setting.

Dust resistant interior construction protects contacts.

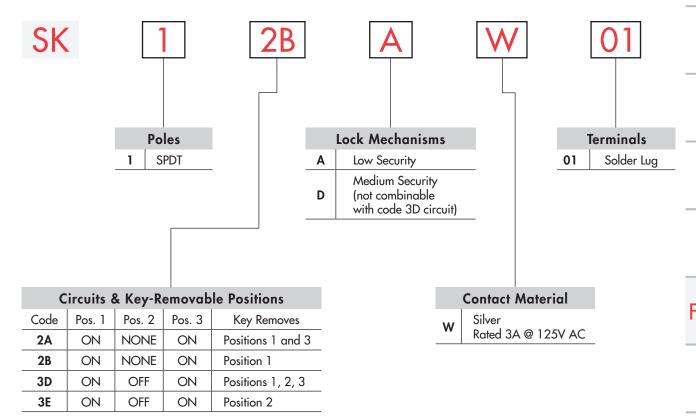


Actual Size





TYPICAL SWITCH ORDERING EXAMPLE



IMPORTANT:



Switches are supplied without UL, cULus & CSA marking unless specified. UL, cULus & CSA recognized only when ordered with marking on the switch. Specific models, ratings, & ordering instructions are noted on the General Specifications page.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

SK12BAW01



	POLES, CIRCUITS & KEY-REMOVABLE POSITIONS										
	Pole &		ŀ	Key Position	s		ected Tern			 = Key Removable = Not Removable	
	Throw	Model	Pos 1	Pos 2	Pos 3	Pos 1	Pos 2	Pos 3	Schematic	✓ = Maximum Arc	
,	SPDT	SK12A	ON	NONE	ON	COM-1		COM-2	COM	POS 1 • 3	
	SPDT	SK12B	ON	NONE	ON	COM-1		COM-2	1 2	POS 1	
	SPDT	*SK13D	ON	OFF	ON	COM-1	OPEN	COM-2	COM	POS 1 @ 3 @	
	SPDT	SK13E	ON	OFF	ON	COM-1	OPEN	COM-2	9 0 1 Z 2	POS 1 O 3	

^{*} Available with low security only

KEY REMOVABLE

Positions 1 & 3 90° Angular Throw

Position 1 90° Angular Throw



Positions 1, 2 & 3 45° Angular Throw



Position 2 45° Angular Throw

LOCK MECHANISMS & KEYS

Low Security Mechanism

Zinc Alloy with Chrome Plating (matte finish)

Two keys provided with each switch (no master key available)

For ordering additional keys: AT4081 for SK12A and SK12B, marked "1201" AT4082 for SK13D and SK13E, marked "1301"



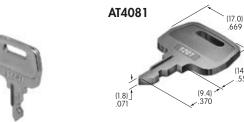
Medium Security Mechanism

Brass with Nickel Plating (shiny finish)

One key provided with each switch (no master key available)

For ordering additional keys, indicate the same key number that is engraved on the face of your switch.

Key numbers (001 through 010) randomly assigned.











Typical Key Ordering Example: AT4124-001







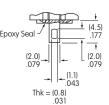
CONTACT MATERIALS, RATINGS, & TERMINALS



Silver over Silver

Power Level

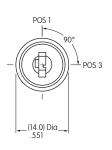
3A @ 125V AC

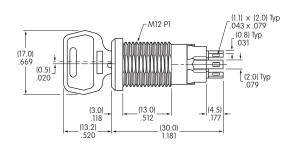


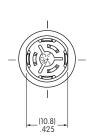
Solder Lug Terminals

TYPICAL SWITCH DIMENSIONS

Low Security • 90° Angular Throw



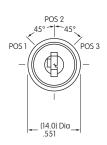


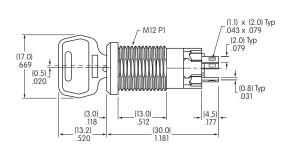


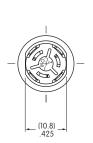


SK12BAW01

Low Security • 45° Angular Throw









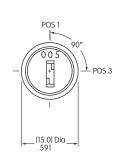
SK13EAW01

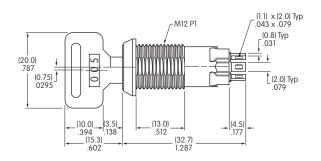
Touch

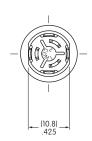
TYPICAL SWITCH DIMENSIONS

Medium Security • 90° Angular Throw





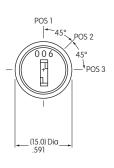


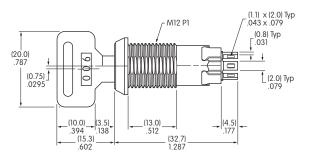


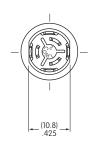
SK12ADW01

Medium Security • 45° Angular Throw



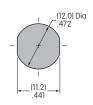






SK13EDW01

PANEL CUTOUT & THICKNESS



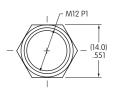
The 12mm bushing is .512" (13.0mm) long. It allows mounting these devices in a maximum effective panel thickness of .315" (8.0mm).

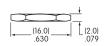
STANDARD HARDWARE

AT527M **Hex Mounting Nut**

1 included with each switch

Steel with nickel plating

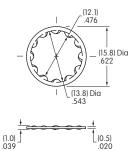




AT508 Internal Tooth Lockwasher

1 included with each switch

Steel with zinc/chromate plating





General Specifications

Electrical Capacity (Resistive Load)

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

(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Note: Find additional explanation of operating range in Supplement section

Other Ratings

Contact Resistance: 100 milliohms maximum

Insulation Resistance: 100 megohms minimum @ 500V DC **Dielectric Strength:** 500V AC minimum for 1 minute minimum

Mechanical Life: 30,000 cycles minimum 20,000 cycles minimum **Electrical Life:** Withstands 15 kilovolts ESD Static Capability: .0002Nm (.0017 lb•in) **Nominal Operating Torque:**

> **Contact Timing:** Break-before-make

> Angle of Throw: 45° for 3-position & 5-position

Materials & Finishes

Key: **Polyacetal**

Housing/Bushing: Glass fiber reinforced polyester (PBT) Base: Glass fiber reinforced polyamide

Rotor & Stopper: Polyacetal Tumbler Plate: Brass

Movable Contactor: Beryllium copper with gold plating Phosphor bronze with gold plating **Stationary Contacts:** Terminals: Phosphor bronze with gold plating

Mounting Bracket: Steel with tin plating

Environmental Data

Operating Temperature Range: -25°C through +70°C (-13°F through +158°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 1 minute; 3 right angled directions for 2 hours

50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction) Shock:

PCB Processing

Wave Soldering Recommended. See Profile A in Supplement section. **Soldering:**

Manual Soldering: See Profile A in Supplement section.

Cleaning: Automated cleaning. See Cleaning specifications in Supplement section.

Standards & Certifications

The SK Series devices 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.



Distinctive Characteristics

Housing and bushing of high insulating material withstands over 15 kilovolts of electrostatic discharge, thus providing antistatic protection.

Totally sealed construction with internal o-ring, with gasket between base and housing, and with insert-molded terminals, gives protection for automated processing techniques.

Subminiature size allows high density mounting.

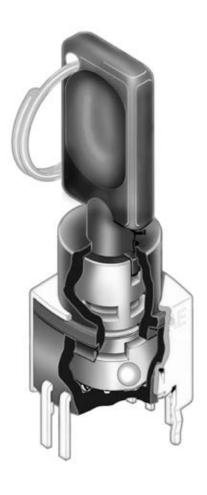
Molded-in terminals prevent entry of flux and other contaminants.

Crimped bracket legs ensure secure PCB mounting and prevent dislodging during automated wave soldering.

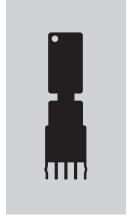
Bifurcated, self-wiping contact mechanism provides unequalled logic-level reliability and smoother, positive detent actuation.

Detent mechanism, with its spring-operated steel ball, gives distinct feel and crisp actuation for accurate switch setting.

.100" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing.



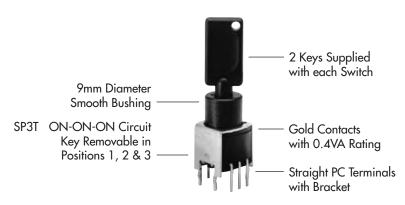
Actual Size





DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

SK13AEG13



	POLES, CIRCUITS & KEY-REMOVABLE POSITIONS												
Pole & Throw	Model	Pos 1		y Positi Pos 3		Pos 5	(Termi	Connectinal num Pos 2	bers are	not on	switch)	Schematic	 Exercise Removable Not Removable Maximum Arc
SP3T	SK13A	ON	ON	ON			C1-2	C1-3	C1-4			C1 2 3 4	POS1
SP5T	SK15A	ON	ON	ON	ON	ON	C1-1	C1-2	C1-3	C1-4	C1-5	C1 1 2 3 4 5	2

KEY REMOVABLE

BUSHING





Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Ė

Touch

Indicators

Slides

Touch

Gold over Bronze or Copper

Logic Level

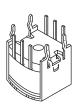
CONTACT MATERIAL & RATING

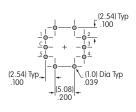
0.4VA @ 28V AC/DC maximum

TERMINALS

13

Straight PC with Bracket

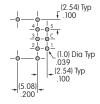




30

Right Angle PC

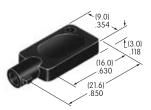




KEY

AT4094 **Tubular Key**

Material: Polyacetal

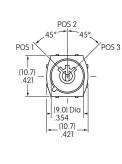


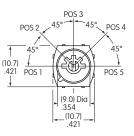
2 keys provided with each switch

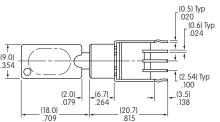
TYPICAL SWITCH DIMENSIONS

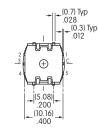
Straight PC with Bracket











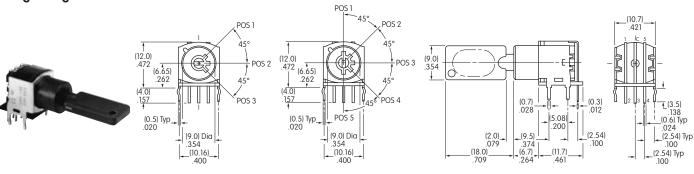
SK13AEG13

3 Position

5 Position

On 3-position models terminals 1 & 5 are support pins.

Right Angle PC



SK15AEG30

3 Position

5 Position

On 3-position models terminals 1 & 5 are support pins.

General Specifications

Electrical Capacity (Resistive Load)

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

(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

See Supplement section to find explanation of operating range

Other Ratings

Contact Resistance: 80 milliohms maximum

Insulation Resistance: 100 megohms minimum @ 500V DC **Dielectric Strength:** 500V AC minimum for 1 minute minimum

Mechanical Life: 30,000 cycles minimum **Electrical Life:** 10,000 cycles minimum

Nominal Operating Torque: .026Nm (.234 lb•in) for momentary action models

.020Nm (.182 lb•in) for maintained action models

Break-before-make **Contact Timing:**

90° for 2-position & 45° for 3-position Angle of Throw:

Materials & Finishes

Polyvinyl chloride **Boot:**

Key: Brass alloy with bright nickel plating;

brass alloy with bright nickel plating & ABS resin handle

Tumbler Barrel: Polyacetal

Bushing: Zinc alloy with nickel plating **Bracket:**

Steel with tin plating

Base: Glass fiber reinforced polyamide Beryllium copper with gold plating **Movable Contactor:**

Stationary Contacts: Copper with gold plating Brass with tin plating Terminals:

Environmental Data

Operating Temperature Range: -25°C through +70°C (-13°F through +158°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 1 minute; 3 right angled directions for 2 hours

Shock: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

PCB Processing

Wave Soldering recommended: See Profile B in Supplement section. **Soldering:**

Manual Soldering: See Profile B in Supplement section.

Cleaning: Automated cleaning. Boot must be on switch during processing.

See Cleaning specifications in Supplement section.

Standards & Certifications

These SK Series devices 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.

Ė

Distinctive Characteristics

Sealed body construction plus disposable boot protect contacts and allow automated processing.

Molded-in terminals seal out flux, solvents, and other contaminants.

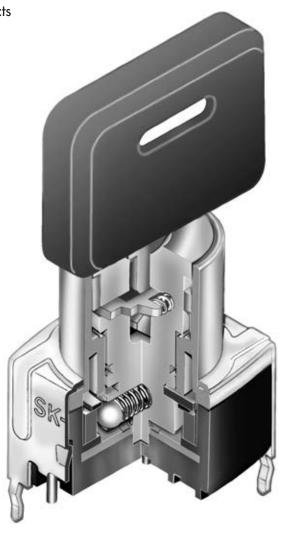
Short body size for space-saving, behind panel dimensions.

Detent mechanism, with its spring-operated steel ball, gives crisp, positive action for accurate switch setting.

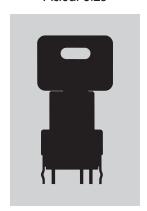
Bifurcated, self-wiping contact mechanism provides unequalled logic-level reliability and smoother, positive detent actuation.

Crimped bracket legs ensure secure PCB mounting and prevent dislodging during automated wave soldering.

 $.100'' \times .100'' (2.54 \text{mm} \times 2.54 \text{mm})$ terminal spacing conforms to standard PC board grid spacing.



Actual Size





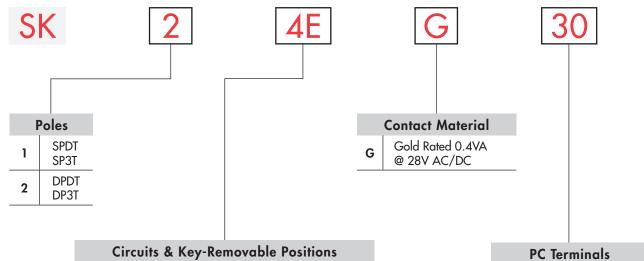
13

30

Straight with Bracket

Right Angle

TYPICAL SWITCH ORDERING EXAMPLE

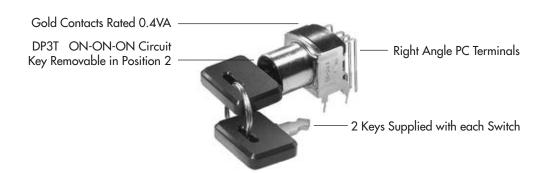


Circuits & Key-Removable Positions									
Code	Pos. 1	Pos. 2	Pos. 3	Key Removes					
2A	ON	NONE	ON	Positions 1 and 3					
2B	ON	NONE	ON	Position 1					
5B	ON	NONE	(ON)	Position 1					
*4D	ON	ON	ON	Positions 1, 2, 3					
*4E	ON	ON	ON	Position 2					

() = Momentary *Can be used as ON-OFF-ON circuit

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

SK24EG30





Ė

Supplement Accessories

POLES, CIRCUITS & KEY-REMOVABLE POSITIONS									
Pole & Throw	Model	Pos 1	Key Position Pos 2	s Pos 3	(Terminal n	nected Term	ot on switch)	Schematic	 = Key Removable = Not Removable = Maximum Arc
	Model	1031	103 2	103 5	Pos 1	Pos 2	Pos 3	Schemanc	POS 1
SPDT	SK12A	ON	NONE	ON	C1-1		C1-2	C1	© 3
SPDT SPDT	SK12B SK15B	ON ON	NONE NONE	ON (ON)	C1-1		C1-2	1 2	POS1 • 3
DPDT	SK22A	ON	NONE	ON	C1-1 C2-4		C1-2 C2-5	C1 C2	POS 1 • 3
DPDT DPDT	SK22B SK25B	ON ON	NONE NONE	ON (ON)	C1-1 C2-4		C1-2 C2-5	1 2 4 5	POS 1 • 3
SP3T	SK14D	ON	ON	ON	C1-1	C1-2	C1-3	C1	POS 1 0 3
SP3T	SK14E	ON	ON	ON	C1-1	C1-2	C1-3	1 2 3	POS1 0 3
DP3T	SK24D	ON	ON	ON	C1-1 C2-4	C1-2 C2-5	C1-3 C2-6	C1 C2	POS 1 0 3 0
DP3T	SK24E	ON	ON	ON	C1-1 C2-4	C1-2 C2-5	C1-3 C2-6	1 2 3 4 5 6	POS1

KEY REMOVABLE

Positions 1 & 3 90° Angular Throw Position 1 90° Angular Throw

Positions 1, 2 & 3 45° Angular Throw

Position 2 45° Angular Throw

CONTACT MATERIAL & RATING

Gold over Copper

Logic Level

0.4VA maximum @ 28V AC/DC maximum

TERMINALS

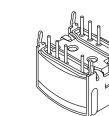
Straight PC Terminals with Bracket

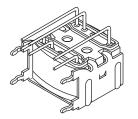
Right Angle PC Terminals

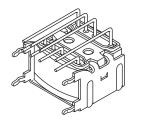
Double Throw Model

Three Throw Model

Double Throw Model







Three Throw Model



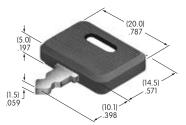
Touch

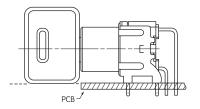
KEYS

AT4080 Standard **Antistatic Plastic Handle**

Brass Alloy with Bright Nickel Plating & ABS Resin Handle

2 keys supplied with each switch





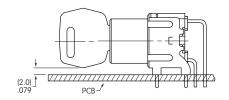
Suitable for all Straight PCB mount and for Right Angle PCB mount where clearance for key is obtainable.

AT4079 for Right Angle Mid-board Mounting (Optional) All Metal

Brass Alloy with Bright Nickel Plating

Contact factory if metal keys needed





Disposable Boot



Each switch is supplied with a boot that provides protection from automated soldering and the cleaning process. Attach the boot without the key installed in the switch.

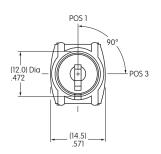
The boot is not reusable; discard after the washing procedure.

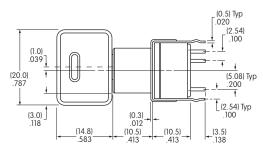
Polyvinyl Chloride



TYPICAL SWITCH DIMENSIONS

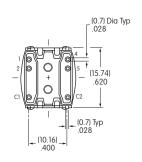
Single & Double Pole





Single Pole models have only terminals 1, 2 & C1

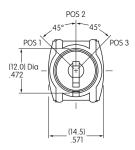
Straight PC with Bracket • Double Throw

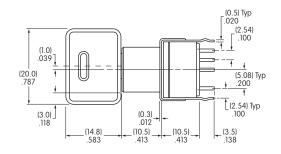




SK12AG13

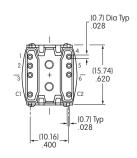
Single & Double Pole





Single Pole models have only terminals 1, 2, 3 & C1

Straight PC with Bracket • Three Throw





SK24DG13

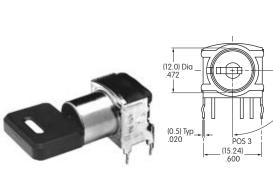


Right Angle

PC Terminals

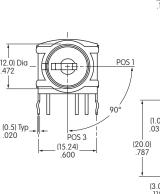
Double Throw

SK15BG30 Keylocks **Right Angle PC Terminals Three Throw** Rotaries Slides



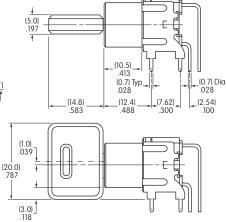
(12.0) Dia .472

(0.5) Typ_ .020



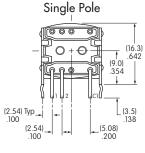
POS 1

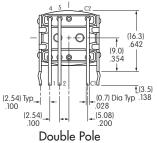
POS 3



TYPICAL SWITCH DIMENSIONS

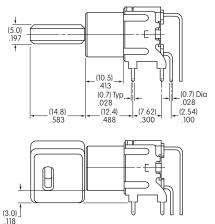
Key in Position 1



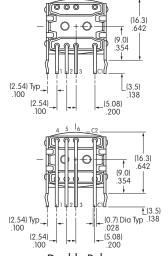


Key in Position 3

Key in Position 2







Key in Position 1

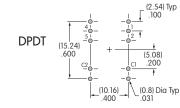
Double Pole

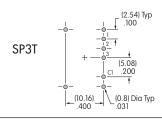
(2.54) Typ .100 **SPDT**

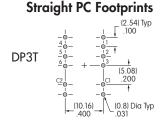
(10.16) .400

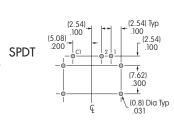
(0.8) Dia Typ .031

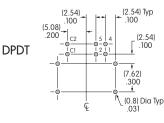
SK24EG30

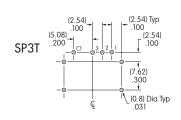


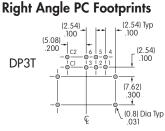












General Specifications

Part Number: SK14DGMG01

Electrical Capacity (Resistive Load)

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

(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)

Other Ratings

100 milliohms maximum **Contact Resistance:**

Insulation Resistance: 100 megohms minimum @ 500V DC

Dielectric Strength: 500V AC minimum between contacts for 1 minute minimum

Mechanical Life: 30,000 operations minimum **Electrical Life:** 10,000 operations minimum Static Capability: Withstands 15 kilovolts ESD **Nominal Operating Force:** 0.02Nm (0.18 lb•in) **Contact Timing:** Break-before-make

> 45° Angle of Throw:

Materials & Finishes

Brass alloy with bright nickel plating and ABS resin handle Key:

Housing: Polyamide

Base: Glass fiber reinforced polyamide Rotor: Glass fiber reinforced polyamide **Tumbler Plate:**

Movable Contacts: Beryllium copper with gold plating

Stationary Contacts: Brass with gold plating **Switch Terminals:** Brass with gold plating

Environmental Data

-40°C through +85°C (-40°F through +185°F) **Operating Temperature Range:**

90 ~ 95% humidity for 240 hours @ 60°C (140°F) **Humidity:**

Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning

in 1 minute; 3 right angled directions for 2 hours

Shock: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

PCB Processing

Soldering: Manual Soldering: lead-free, see profile below. Do not exceed these specifications.

Cleaning: Hand clean locally using alcohol based solution.

> 370°C Solder Iron Tip Temperature Time on Terminal 4 seconds

Cycles

Standards & Certifications

These devices have not been tested for UL recognition or

CSA certification.

These devices 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.



Actual Size





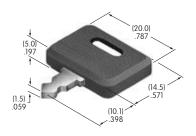
i dila, dikadila di kili kilika wali i dalilaka	POLES,	CIRCUITS	& KEY-REMOVABLE	POSITIONS
---	--------	-----------------	-----------------	------------------

Pole & Throw	Pos 1	Key Position Pos 2	Pos 3		nected Term numbers are Pos 2		Schematic	 = Key Removable = Maximum Arc
SP3T	ON	ON	ON	C-1	C-2	C-3	C	POS 1 2 3

KEY

AT4080 Standard **Antistatic Plastic Handle**

Material: Brass Alloy with Bright Nickel Plating & ABS Resin Handle



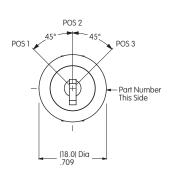
2 keys supplied with each switch

TYPICAL SWITCH DIMENSIONS

Antistatic Snap-in • Flat Key

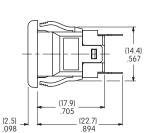


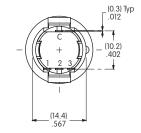




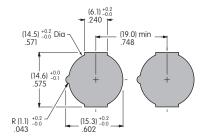
(1.8) Typ .071

Single Pole Three Throw





PANEL CUTOUT



Panel Thickness Range .039" ~ .079" $(1.0mm \sim 2.0mm)$

