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.

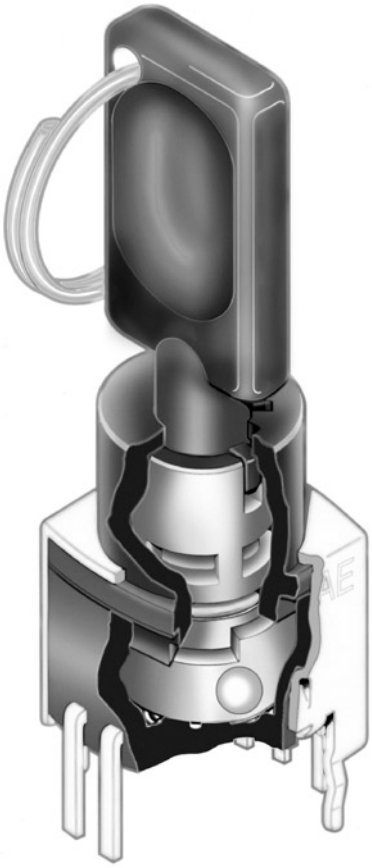
Molded-in terminals prevent entry of flux and other contaminants.

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

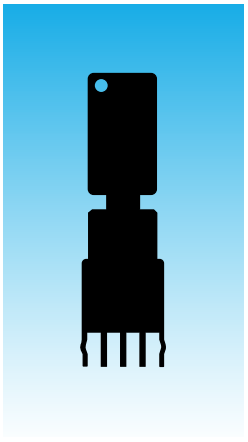
Bifurcated, self-wiping contact mechanism provides unequalled logic-level reliability and smoother, positive detent actuation.

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



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: 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
Electrical Life: 20,000 cycles minimum
Static Capability: Withstands 15 kilovolts ESD
Nominal Operating Torque: .0002Nm (.0017 lb•in)
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
Stationary Contacts: Phosphor bronze with gold plating
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
Shock: 50G (490m/s^2) acceleration (tested in 6 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 cleaning. See Cleaning specifications in Supplement section.

Standards & Certifications

UL Recognition or CSA Certification: 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.

TYPICAL SWITCH ORDERING EXAMPLE

SK | 1 | 3 | A | E | G | 13

POLES

1	SP3T SP5T

KEY REMOVABLE

A	All Positions

BUSHING

E	9mm Diameter Smooth

TERMINALS

13	Straight with Bracket
30	Right Angle

POSITIONS

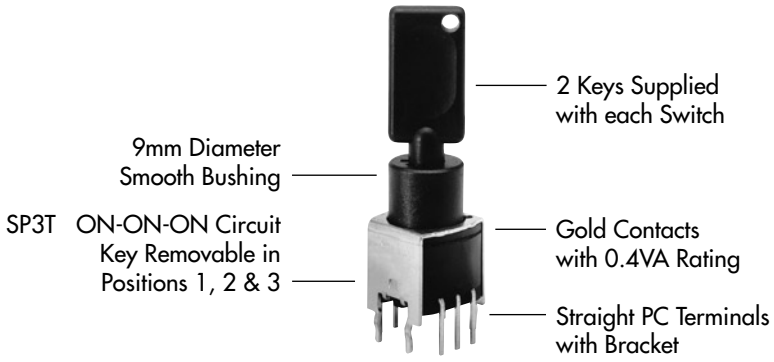
Code	Pos. 1	Pos. 2	Pos. 3	Pos. 4	Pos. 5
3	ON	ON	ON	NONE	NONE
5	ON	ON	ON	ON	ON

CONTACT MATERIAL

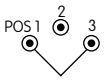
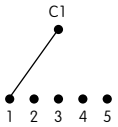
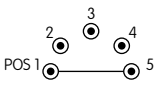
G	Gold Rated 0.4VA @ 28V AC/DC

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

SK13AEG13



POLES, CIRCUITS & KEY-REMOVABLE POSITIONS

Pole & Throw	Model	Key Positions Pos 1	Pos 2	Pos 3	Pos 4	Pos 5	Connected Terminals (Terminal numbers are not on switch) Pos 1	Pos 2	Pos 3	Pos 4	Pos 5	Schematic	⊙ = Key Removable • = Not Removable ◡ = Maximum Arc
SP3T	SK13A	ON	ON	ON	-----	-----	C1-2	C1-3	C1-4	-----	-----		
SP5T	SK15A	ON	ON	ON	ON	ON	C1-1	C1-2	C1-3	C1-4	C1-5		

KEY REMOVABLE

A All Positions
45° Angular Throw

BUSHING

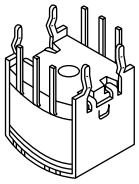
E 9mm Diameter Smooth

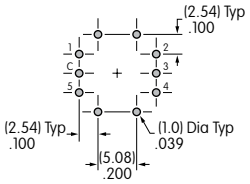
CONTACT MATERIAL & RATING

G Gold over Bronze or Copper	Logic Level	0.4VA @ 28V AC/DC maximum

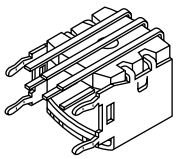
TERMINALS

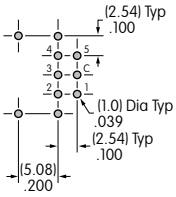
13 Straight PC with Bracket





30 Right Angle PC

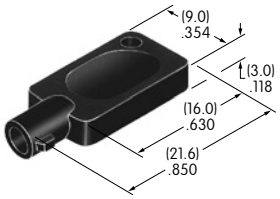




KEY

AT4094
Tubular Key

Material: Polyacetal

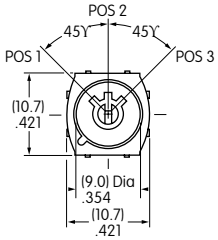


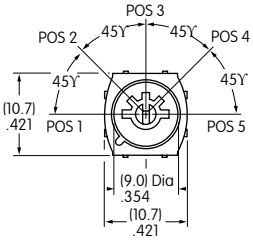
2 keys provided with each switch

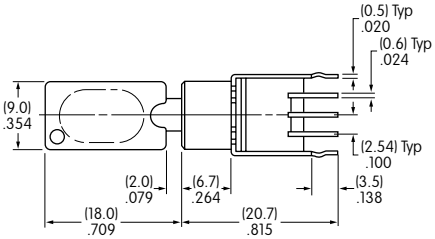
TYPICAL SWITCH DIMENSIONS

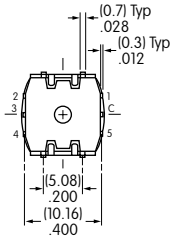
Straight PC with Bracket







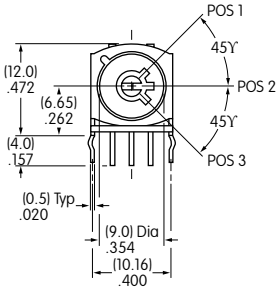


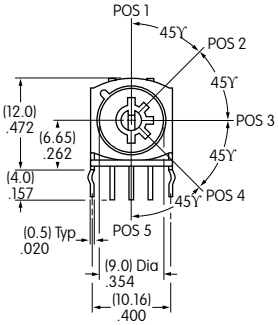


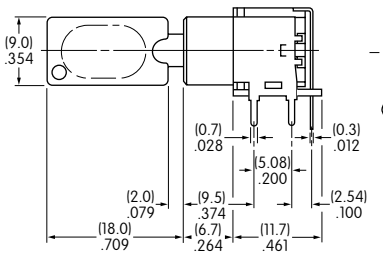
SK13AEG13 **3 Position** **5 Position** On 3-position models terminals 1 & 5 are support pins.

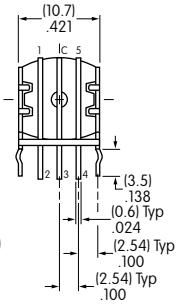
Right Angle PC











SK15AEG30 **3 Position** **5 Position** On 3-position models terminals 1 & 5 are support pins.