

# General Specifications

## Electrical Capacity (Resistive Load)

<b>Maximum Level:</b>	500mA @ 12V DC
<b>Minimum Level:</b>	1.0mA maximum @ 10mV AC/DC maximum

## Other Ratings

<b>Contact Resistance:</b>	30 milliohms maximum
<b>Insulation Resistance:</b>	100 megohms minimum @ 500V DC
<b>Dielectric Strength:</b>	500V AC for 1 minute minimum
<b>Mechanical Life:</b>	1,000 operations minimum
<b>Electrical Life:</b>	1,000 operations minimum
<b>Nominal Operating Force:</b>	2.0N
<b>Contact Timing:</b>	Nonshorting (Break-before-make)
<b>Total Travel:</b>	.063" (1.6mm)

## Materials & Finishes

<b>Actuator:</b>	Glass fiber reinforced polyester (UL94V-0)
<b>Case:</b>	Glass fiber reinforced polyamide (UL94V-0)
<b>Lower Case:</b>	Glass fiber reinforced polyester (UL94V-0)
<b>Movable Contacts:</b>	Brass with gold plating over nickel
<b>Stationary Contacts:</b>	Brass with gold plating over nickel
<b>Terminals:</b>	Brass with gold plating over nickel

## Environmental Data

<b>Operating Temp Range:</b>	-40°C through +85°C (-40°F through +185°F)
<b>Humidity:</b>	90-95% humidity for 96 hours @ 40°C (104°F)
<b>Vibration:</b>	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
<b>Shock:</b>	50G (490m/s <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

## PCB Processing

<b>Soldering:</b>	Wave Soldering Recommended: See Profile A in Supplement section. Manual Soldering: See Profile B in Supplement section.
<b>Cleaning:</b>	These devices are not process sealed. Hand clean locally using alcohol based solution.

## Standards & Certifications

<b>Flammability Standards:</b>	Actuator and lower case of glass fiber reinforced polyester and case of glass fiber reinforced polyamide UL94V-0 The SM series devices have not been tested for UL recognition and CSA certification. These switches are designed for use in a low-voltage, low-current circuit. When used as intended in a low-voltage, low-current circuit, the results do not produce hazardous energy.
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# Distinctive Characteristics

Very compact dimensions allow for high density, side-by-side or end-to-end mounting within tight dimensional applications.

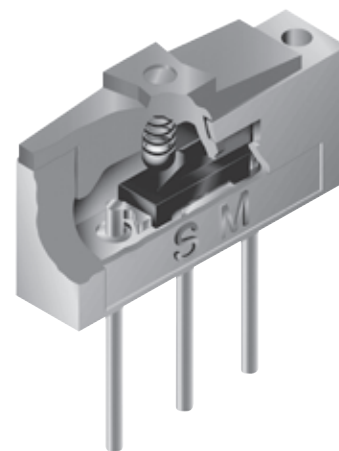
Detent mechanism provides positive actuation to indicate circuit status.

Visible indication of position by spot on top of red actuator and through window on side.

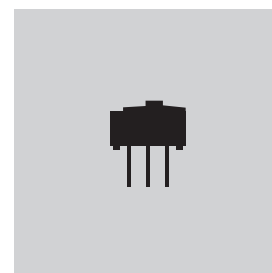
Twin sliding contact mechanism with self-cleaning action provides smooth actuation and produces high contact reliability.

.100" x .100" (2.54mm x .254mm) center-to-center inch terminal spacing allows standard PC board mounting in side-by-side or end-to-end arrangements.

Insert molded terminals lock out flux, solvents, and other contaminants.



Actual Size

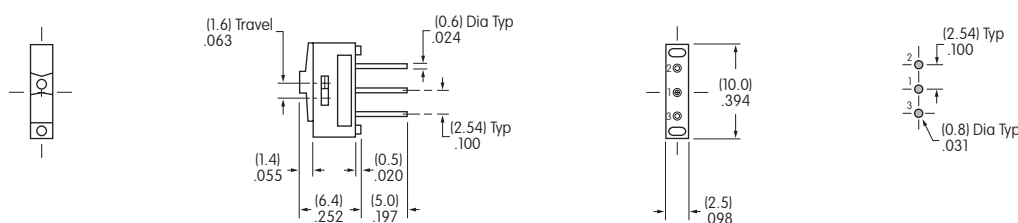


## POLES & CIRCUITS

Model	Slide Position			Connected Terminals			Throw & Schematics
	Right	Center	Left	Right	Center	Left	
							Note: Terminal numbers are on the switch. SPDT
SM0320102	ON	NONE	ON	1-3	OPEN	1-2	

## TYPICAL SWITCH DIMENSIONS

Single Pole • Straight PC



Actuator shown in RIGHT position



SM0320102

Toggles  
 Rockers  
 Pushbuttons  
 Illuminated PB  
 Programmable  
 Keylocks  
 Rotaries  
**H Slides**  
 Tactiles  
 Tilt  
 Touch  
 Indicators  
 Accessories  
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