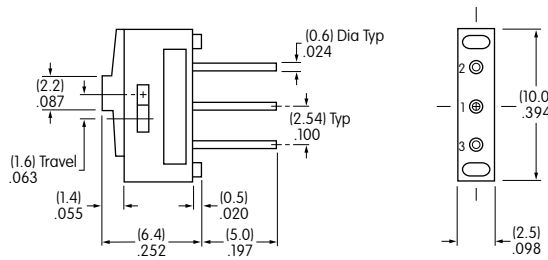
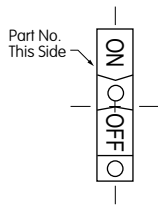
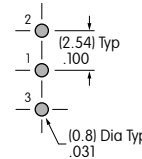


## SMVA001



Actuator shown in RIGHT position.

Dimensions in mm/inch



Footprint

### LEGEND SPECIFICATIONS

<b>Legend</b>	ON OFF
<b>Type Style</b>	Arial Narrow Regular
<b>Type Size</b>	4.5 Point
<b>Legend Color</b>	White
<b>Print Method</b>	Pad Print

Legend shown is illustrative only. Actual art may vary.

### SINGLE POLE WITH STRAIGHT PC TERMINALS

Base Switch: Red Actuator & Gray Body	Pole & Circuit	Slide Position			Connected Terminals			Schematic
		Right	Center	Left	Right	Center	Left	
SM0320102	SPDT	ON	NONE	ON	1-3	OPEN	1-2	

## Base Switch Specifications

### Electrical Capacity (Resistive Load)

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

### Other Ratings

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

### Materials & Finishes

**Actuator:** Glass fiber reinforced polybutylene terephthalate (UL94V-0)  
**Case:** Glass fiber reinforced polyamide (UL94V-0)  
**Movable Contacts:** Brass with gold plating over nickel  
**Stationary Contacts:** Brass with gold plating over nickel  
**Terminals:** Brass with gold plating over nickel

### Environmental Data

**Operating Temperature Range:** -40°C through +85°C (-40°F through +185°F)  
**Humidity:** 90 - 95% humidity for 96 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<sup>2</sup>) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

### PCB Processing

**Soldering:** Wave Soldering recommended: Preheat temperature 110°C for 40 seconds; Peak temperature 270° for 6 seconds; 2 cycles. Thickness of PCB 1.6mm (.063")  
 Manual Soldering: 350°C for 3 seconds, 1 cycle  
**Cleaning:** These devices are not process sealed. Hand clean locally using alcohol based solution.

### Standards & Certifications

**Flammability Standards:** Actuator & case 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.