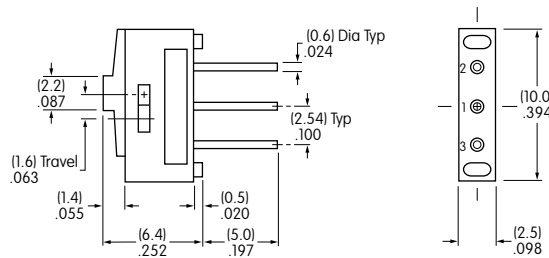
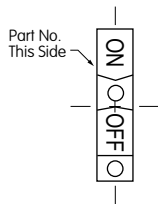
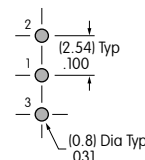


## SMVA001



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)

<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 &amp; Finishes

<b>Actuator:</b>	Glass fiber reinforced polybutylene terephthalate (UL94V-0)
<b>Case:</b>	Glass fiber reinforced polyamide (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 Temperature 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: 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
<b>Cleaning:</b>	These devices are not process sealed. Hand clean locally using alcohol based solution.

## Standards &amp; Certifications

<b>Flammability Standards:</b>	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.
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