

### GENERAL SPECIFICATIONS FOR SB25, SB60s, SB221s, SB265

#### Electrical Capacity (Resistive Load)

**Power Level:** Shown in the following tables

#### Other Ratings

<b>Contact Resistance:</b>	10 milliohms maximum
<b>Insulation Resistance:</b>	200 megohms minimum @ 500V DC for SB221s, SB25, & SB265; 1,000 megohms minimum @ 500V DC for SB60s.
<b>Dielectric Strength:</b>	1,500V AC minimum for SB265 & SB25 for 1 minute minimum; 2,000V AC minimum between contacts for SB221s & SB60s for 1 minute minimum; 1,500V AC minimum between contacts & case for SB221s & SB60s for 1 minute minimum
<b>Mechanical Life:</b>	50,000 operations minimum for SB221s; 30,000 operations minimum for SB25, SB60s, SB265
<b>Electrical Life:</b>	10,000 operations minimum
<b>Total Travel:</b>	SB221s .116" (2.95mm); SB60s .094" (2.4mm); SB265 .213" (5.4mm); SB25 .195" (4.95mm)
<b>Operating Temp Range:</b>	-10°C through +70°C (+14°F through +158°F)

#### Materials & Finishes

<b>Cap:</b>	Polybutylene terephthalate (PBT) (AT414)
<b>Plunger:</b>	Polyacetal or brass with nickel plating
<b>Bushing:</b>	Brass with nickel plating
<b>Case:</b>	Phenolic resin or melamine phenolic resin
<b>Case Cover:</b>	Steel with zinc plating
<b>Movable &amp; Stationary Contacts:</b>	Copper with silver plating for SB221s; silver alloy with silver plating for SB25, SB60s, & SB265
<b>Terminals:</b>	Copper with tin plating for SB25 & SB60s; copper with silver plating for SB265

#### Installation

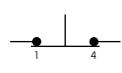
**Soldering Time & Temp:** Manual Soldering (Solder Lug): See Profile A in Supplement section.

#### Standards & Certifications

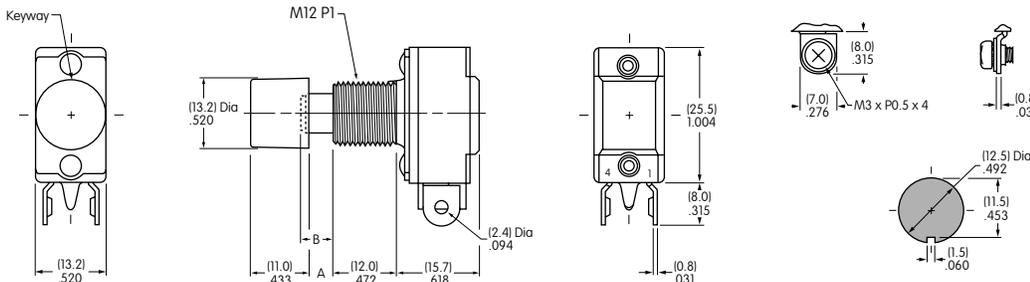
- UL: File No. E44145 - Recognized only when ordered with marking on switch.**  
Add "/U" or "/CUL" to end of part number to order UL recognized switch.  
UL or cULus recognition designated beside part numbers on following pages.  
See Supplement section to find UL or cULus rating details.
- CSA: File No. 023535\_0\_000 - Certified only when ordered with marking on switch.**  
Add "/C" to end of part number to order CSA certified switch.  
CSA certification designated beside part numbers on following pages.  
See Supplement section to find CSA rating details.

## SINGLE POLE WITH SOLDER LUG \* OR SCREW LUG

* UL, cULus & CSA recognized only when ordered with marking on switch (see General Specs)			Pushbutton Position/Connected Terminals ( ) = Momentary		Electrical Capacity (Resistive)	
Model	* Approvals UL cULus SP	Pole & Throw	Normal 	Down 	AC 125V	AC 250V
SB221NO	— — ✓	SPST	OFF —	(ON) 1-4	3A	1.5A
SB221NC	✓ — ✓	SPST	ON 1-4	(OFF) —	3A	1.5A
SB221TNO	— — ✓	SPST	OFF —	(ON) 1-4	3A	1.5A
SB221TNC	✓ — ✓	SPST	ON 1-4	(OFF) —	3A	1.5A

Suffix T = Screw Lug      **Throw & Schematic:** SPST SB221NO  SPST SB221NC  Note: Terminal numbers are actually on the switch.

**Notes:** Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Hex Backup Nut. See Accessories & Hardware section.  
\* Wire harness & cable assemblies offered only in Americas.



Dimension A: .185" (4.7mm) for NO model & .150" (3.8mm) for NC model.  
Dimension B Plunger Extension: .197" (5.0mm) for NO model & .161" (4.1mm) for NC model.

Panel Thickness .193" (4.9mm)



**SB221NO**  
Supplied with AT414 Black Cap

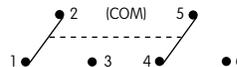
## DOUBLE POLE WITH SOLDER LUG \*

* UL & cULus recognized only when ordered with marking on switch (see General Specs)			Pushbutton Position/Connected Terminals ( ) = Momentary		Electrical Capacity (Resistive)	
Model	* Approvals UL cULus SP	Pole & Throw	Normal 	Down 	AC 125V	AC 250V
SB61A	✓ — —	DPDT	ON 2-3 5-6	(ON) 2-1 5-4	10A	5A
SB61B	— — —	DPDT	ON 2-3 5-6	(ON) 2-1 5-4	3A	1.5A
SB63A	— — —	DPDT	ON 2-3 5-6	(ON) or Lockdown ON 2-1 5-4	10A	5A

Lockdown for SB63A is achieved by actuating and then turning the button clockwise.

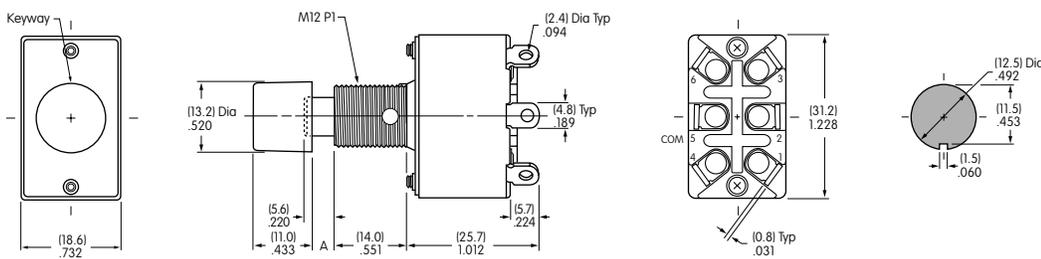
**Throw & Schematic:**

DPDT



Note: Terminal numbers are actually on the switch.

**Notes:** Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Hex Backup Nut. See Accessories & Hardware section.  
\* Wire harness & cable assemblies offered only in Americas.



Dimension A: .169" (4.3mm) for SB61 model and .130" (3.3mm) for SB63 model.

Panel Thickness .193" (4.9mm)



**SB61A**  
Supplied with AT414 Black Cap

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

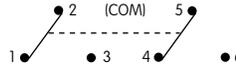
Supplement

### DOUBLE POLE WITH SOLDER LUG \*

* UL, cULus & CSA recognized only when ordered with marking on switch (see General Specs)			Pushbutton Position/Connected Terminals ( ) = Momentary		Electrical Capacity (Resistive)	
Model	* Approvals	Pole & Throw	Normal	Down	AC 125V	AC 250V
SB25	✓  ✓  ✓	DPDT	ON  2-3 5-6	ON  2-1 5-4	15A	9A

Throw & Schematic:

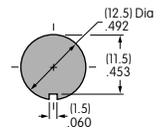
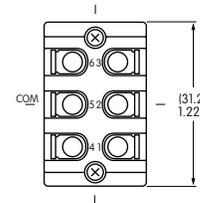
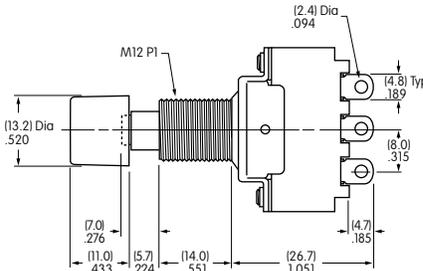
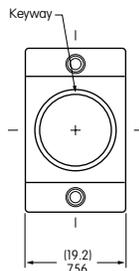
DPDT



Note: Terminal numbers are actually on the switch.

**Notes:** Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Hex Backup Nut. See Accessories & Hardware section.

\* Wire harness & cable assemblies offered only in Americas.



**SB25**

Supplied with AT414 Black Cap

Panel Thickness .193" (4.9mm)

### SINGLE POLE WITH SOLDER LUG \*

* UL, cULus & CSA recognized only when ordered with marking on switch (see General Specs)			Pushbutton Position/Connected Terminals ( ) = Momentary		Electrical Capacity (Resistive)	
Model	* Approvals	Pole & Throw	Normal	Down	AC 125V	AC 250V
SB265	✓  ✓  ✓	SPST	ON  1-4	OFF —	6A	3A

Throw & Schematic:

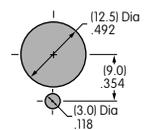
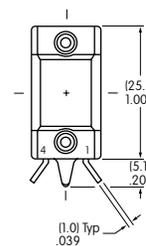
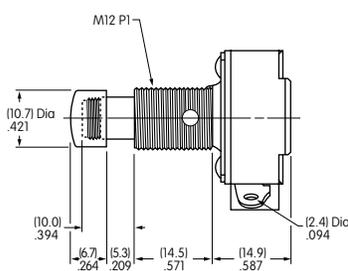
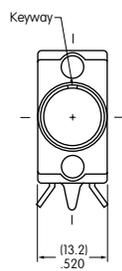
SPST



Note: Terminal numbers are actually on the switch.

**Notes:** Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Hex Backup Nut. See Accessories & Hardware section.

\* Wire harness & cable assemblies offered only in Americas.



**SB265**

Supplied with Chrome Plated Brass Cap

Panel Thickness .291" (7.4mm)