

GENERAL SPECIFICATIONS FOR SB25, SB60s, SB221s, SB265

Electrical Capacity (Resistive Load)

Power Level: Shown in the following tables

Other Ratings

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

Materials & Finishes

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

Installation

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

Standards & Certifications

- UL:** File No. E44145
Designated with UL & cULus recognized symbols beside part numbers on following pages.
See Supplement Index page Z2 to find rating details.
Add "/U" or "/CUL" to end of part number to order UL or cULus marks on switch.
- CSA:** File No. 023535_0_000
Designated with CSA certified symbol beside part numbers on following pages.
See Supplement section to find rating details.
Add "/C" to end of part number to order CSA mark on switch.

SINGLE POLE WITH SOLDER LUG * OR SCREW LUG

All switches listed here are supplied with AT414 black cap.

Model	* Approvals			Pole & Throw	Pushbutton Position/Connected Terminals () = Momentary		Electrical Capacity (Resistive)	
	UL	cULus	CSA		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.

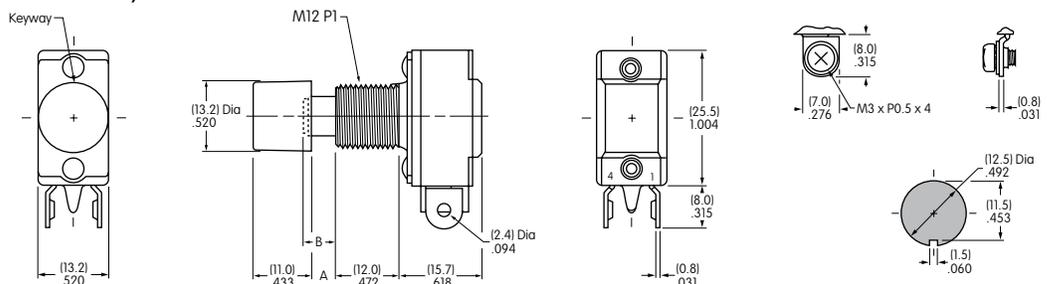
Notes: Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Hex Backup Nut. See Accessories & Hardware section.

* See General Specifications for approval marking.

* Wire harness & cable assemblies offered only in Americas.



SB221NO
Supplied with AT414 Black Cap



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)

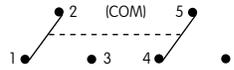
DOUBLE POLE WITH SOLDER LUG *

Model	*Approvals 	Pole & Throw	Pushbutton Position/Connected Terminals () = Momentary				Electrical Capacity (Resistive)	
			Normal	Down	AC 125V	AC 250V		
SB61A	✓ ✓ —	DPDT	ON	2-3 5-6	(ON)	2-1 5-4	10A	5A
SB61B	— — —		ON	2-3 5-6	(ON)	2-1 5-4	3A	1.5A
SB63A	— — —		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

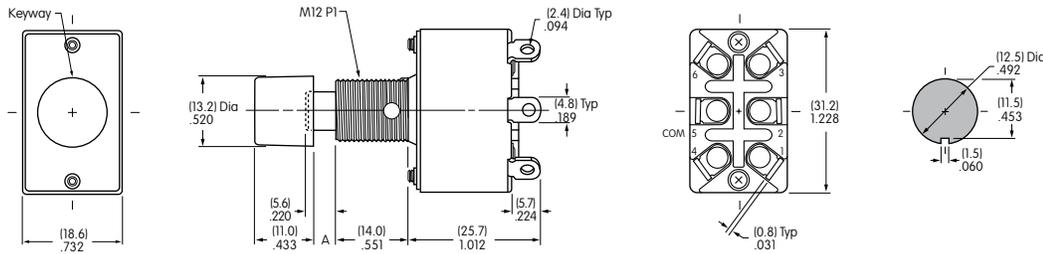


Note: Terminal numbers are actually on the switch.

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

* See General Specifications page for approval marking.

* Wire harness & cable assemblies offered only in Americas.



SB61A
Supplied with AT414 Black Cap

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

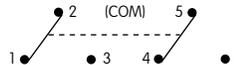
Panel Thickness
.193" (4.9mm)

DOUBLE POLE WITH SOLDER LUG *

Model	*Approvals 	Pole & Throw	Pushbutton Position/Connected Terminals () = Momentary				Electrical Capacity (Resistive)	
			Normal	Down	AC 125V	AC 250V		
SB25	✓ ✓ ✓	DPDT	ON	2-3 5-6	ON	2-1 5-4	15A	9A

Throw & Schematic:

DPDT

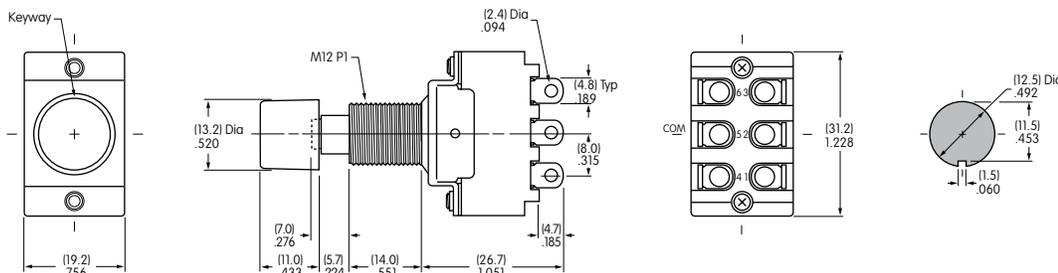


Note: Terminal numbers are actually on the switch.

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

* See General Specifications page for approval marking.

* Wire harness & cable assemblies offered only in Americas.



SB25
Supplied with AT414 Black Cap

Panel Thickness
.193" (4.9mm)

SINGLE POLE WITH SOLDER LUG *

Model	* Approvals UL, CE, SP	Pole & Throw	Pushbutton Position/Connected Terminals () = Momentary		Electrical Capacity (Resistive)	
			Normal  Keyway	Down 	AC 125V	AC 250V
SB265	✓ ✓ ✓	SPST	ON 1-4	OFF —	6A	3A
Throw & Schematic:			SPST		Note: Terminal numbers are actually on the switch.	

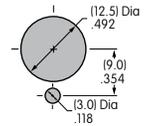
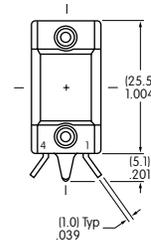
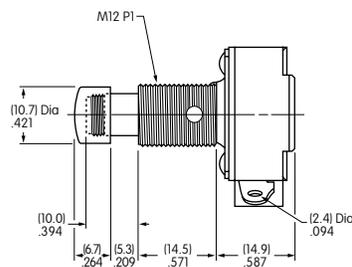
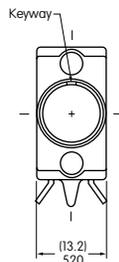
Notes: Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Hex Backup Nut. See Accessories & Hardware section.

- * See General Specifications page for approval marking.
- * Wire harness & cable assemblies offered only in Americas.



SB265

Supplied with Chrome Plated Brass Cap



Panel Thickness
.291" (7.4mm)

Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable PB

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement