

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)
Plunger:	Polyacetal
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

Installation



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


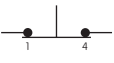
Standards & Certifications

- 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.

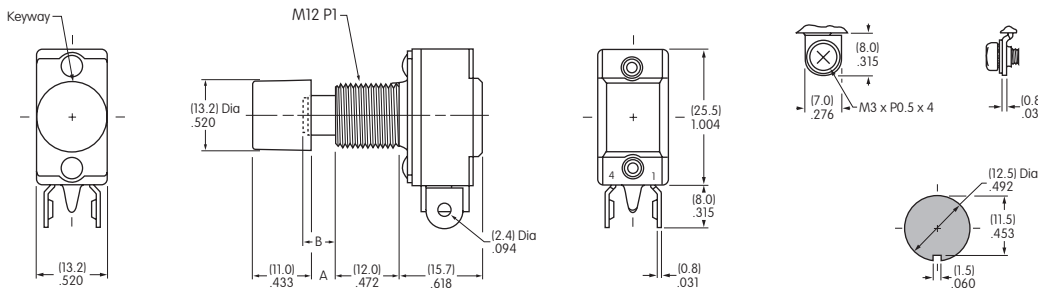
Low/Medium Capacity Pushbuttons

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  Keyway	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.





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

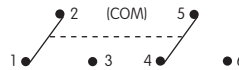
DOUBLE POLE WITH SOLDER LUG

* 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  Keyway	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.

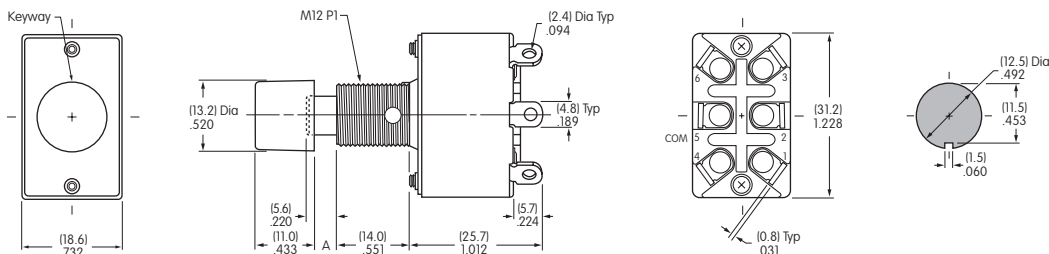
Throw & Schematic:

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.



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

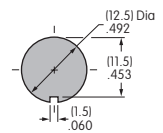
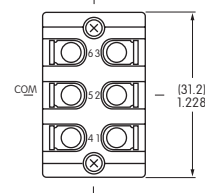
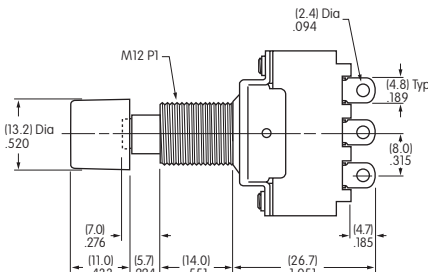
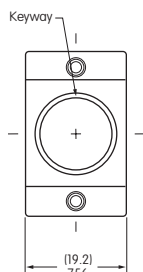
Panel Thickness
.193" (4.9mm)

SB61A
Supplied with
AT414 Black Cap

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	✓ UL cULus SP	DPDT	ON 2-3 5-6	ON 2-1 5-4	15A	9A
Throw & Schematic:					Note: Terminal numbers are actually on the switch.	

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



SB25

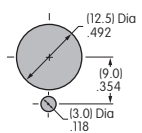
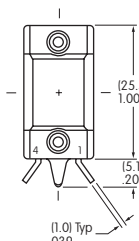
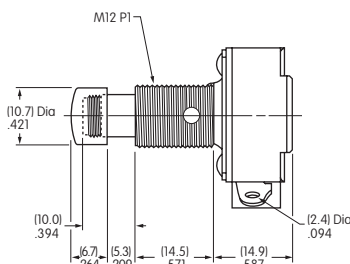
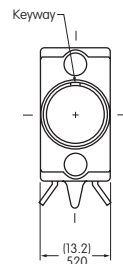
Supplied with
AT414 Black Cap

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	✓ UL cULus SP	SPST	ON 1-4	OFF —	6A	3A
Throw & Schematic:					Note: Terminal numbers are actually on the switch.	

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



SB265

Supplied with Chrome
Plated Brass Cap

Panel Thickness
.291" (7.4mm)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

NKK Switches:

[SB285-015H](#) [SB221TNC-RO](#) [SB285-RO](#) [SB282-RO](#)