Features/Benefits

- Subminiature size—capable of switching 1 AMP
- Vertical & right angle terminations
- PC & panel mount models
- Snap-in front panel mounting available
- Epoxy terminal seal-compatible with bottom wash cleaning
- RoHS compliant models available



Models Available

Typical Applications

- Telecommunications and networking equipment
- Computers and peripherals
- Instrumentation and controls





Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: 1 AMP @ 120 V AC or 28 V DC. See page A-19 for additional ratings.

ELECTRICAL LIFE: TP11, TP21 MODELS: 60,000 make-and-break cycles at full load. TP12 MODELS: 30,000 cycles.

CONTACT RESISTANCE: Below 20 m Ω 15 typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: $10^9\Omega$ 15min.

DIELECTRIC STRENGTH: 1000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or

EIA RS-186E method 9 (1 hour steam aging).

NOTE: Any models supplied with Q, B, P, R or G contact material are RoHS compliant.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Materials

CASE: Glass filled nylon 4/6 or 6/6, flame retardant, heat stabilized or diallyl phthalate (DAP), (UL 94V-0).

PLUNGER: Thermoplastic polyester (UL 94V-0).

CAP & FRAME: Nylon, black standard.

BUSHING: Brass, nickel plated. HOUSING: Stainless steel.

SWITCH SUPPORT: Brass, matte-tin plated.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page A-19 for additional contact materials.

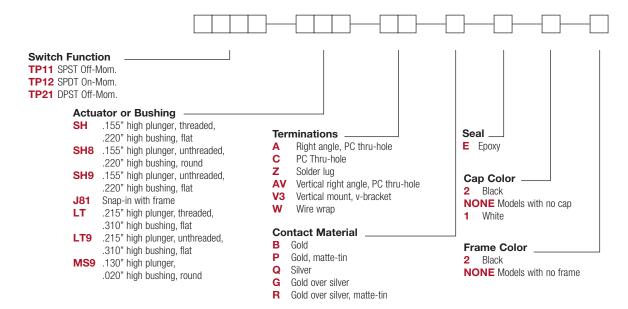
CENTER CONTACT & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page A-19 for additional contact materials.

TERMINAL SEAL: Epoxy. Refer to soldering and cleaning in Technical Data Chapter

HARDWARE: Nut & Locking Ring: Brass nickel plated. Lockwasher: Steel, nickel plated.

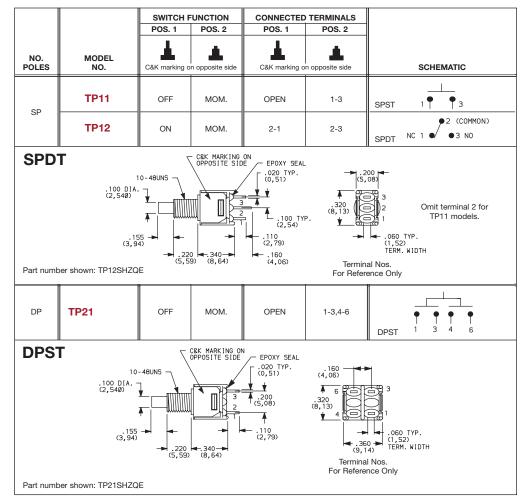
Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-16 thru A-20. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.





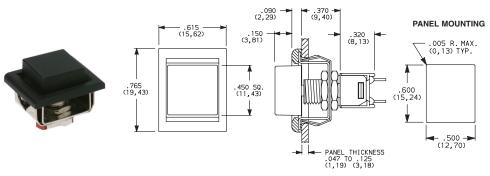
SWITCH FUNCTION



All models with all options when ordered with G, Q or R contact material.

ACTUATOR—SNAP-IN FRONT MOUNT

J81 SNAP-IN WITH FRAME



OPTION CODE	CAP COLOR	
2	BLACK	
1	WHITE	

OPTION CODE	FRAME COLOR	
2	BLACK	
NONE	No Frame Color (J80 option)	

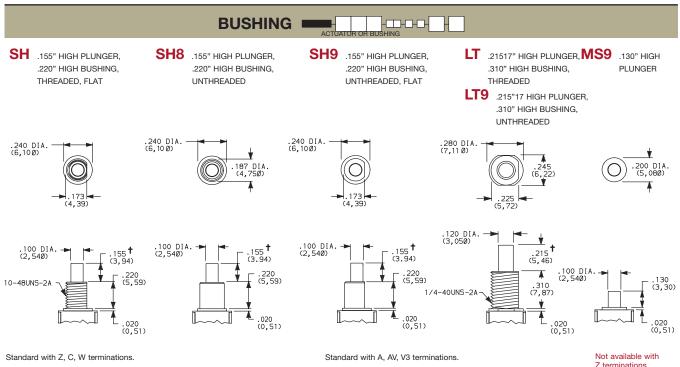
Cap and Frame Finish: matte. Other colors available, consult Customer Service Center. NOTE: Available with Z, C, or W terminations.

NOTE: Caps & frames available separately, see page A-20.



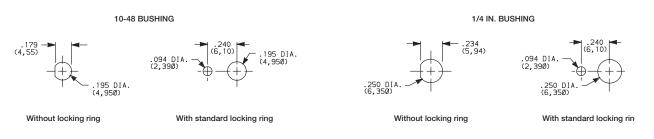
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



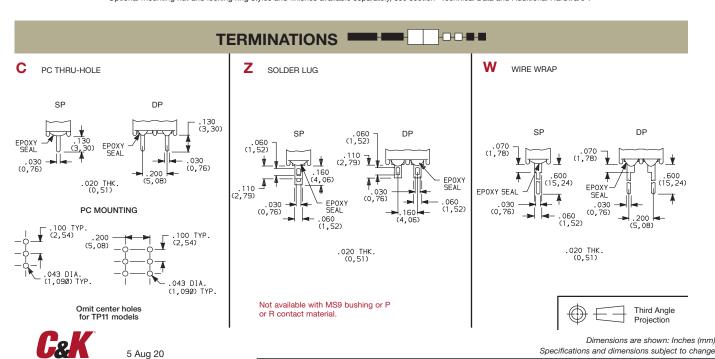


PANEL MOUNTING

† Subtract .016 (0,41) for models with A, AV or V3 terminations. NOTE: Caps available for plunger options, see page A-20.

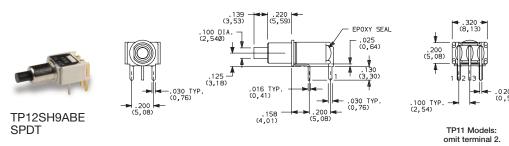


NOTE: One mounting nut, locking ring and lockwasher supplied standard with 10-48 threaded bushings (two nuts with 1/4-40 bushings). Optional mounting nut and locking ring styles and finishes available separately, see section "Technical Data and Additional Hardware".

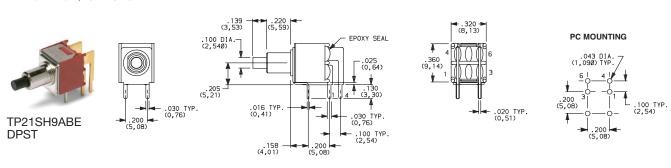


TERMINATIONS ----

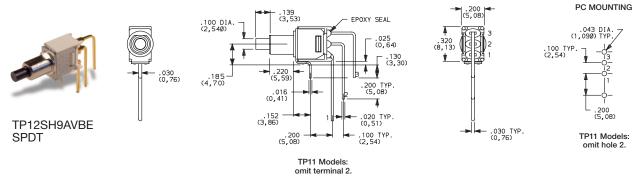
A RIGHT ANGLE, PC THRU-HOLE



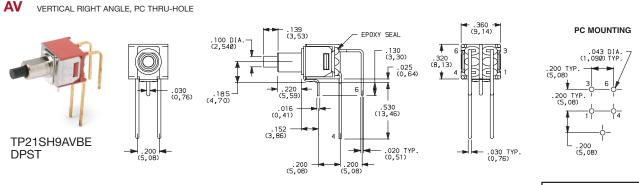
A RIGHT ANGLE, PC THRU-HOLE



AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



NOTE: Terminal bend radii and lead-in manufacturing option.



NOTE: Terminal bend radii and lead-in manufacturing option.



PC MOUNTING

.043 DIA (1,090) TYP

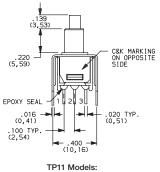
TP11 Models: omit hole 2.

C&K

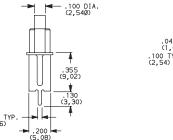
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

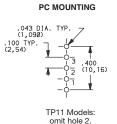
TERMINATIONS ---

V3 VERTICAL MOUNT, V-BRACKET



(9,0)
(9,0)
(10,16)
(9,0)
(9,0)
(10,76)
(10,76)
(10,76)
(10,76)
(10,76)

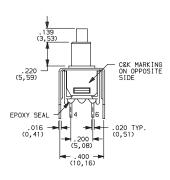




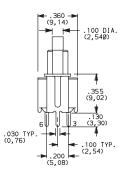


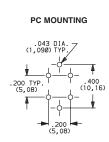
TP12SH9V3BE SPDT

V3 VERTICAL MOUNT, V-BRACKET



omit terminal 2.







TP21SH9V3BE DPST

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	GOLD ¹	GOLD ¹	LOW LEVEL/DRY CIRCUIT	
Р	GOLD	MATTE-TIN ⁶	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
Q	SILVER ^{4,5}	SILVER ⁵	POWER	1 AMP @ 120 V AC OR 28 V DC.
G	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 VA MAX @ 20 V AC OR DC MAX. OR
R		MATTE-TIN ⁶	LOW LEVELS SITT GINGOIT ON FOWER	1 AMP @ 120 V AC OR 28 V DC.

^{*} Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- ¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- ² END CONTACTS: Coin silver, with gold plate over nickel plate.
- $^{\rm 3}$ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- ⁴ END CONTACTS: Coin silver, silver plated.
- ⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- ⁶ TERMINALS: Copper alloy, with matte-tin over nickel plate.

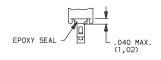
NOTE: Any models supplied with P, R, Q, B or G contact material are RoHS compliant.

All models Multh all options when ordered with R, G, or Q contact material. B contact material standard with A, AV, V3 & W terminations.

- Q contact material standard with C & Z terminations
- P, R contact materials not available with Z terminations.

SEAL ---

E EPOXY SEAL

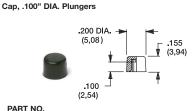




Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



AVAILABLE HARDWARE



508101000 WHITE

BLACK

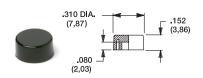
508102000 Material: Nylon Finish: Gloss

.200 DIA. (5,08)(3,94) .081 (2.06)PART NO. 538701000 WHITE 538702000 BLACK Material: Nylon Finish: Gloss

Cap, .100" DIA. Plungers

(Recommended for S9 plunger)

Cap, .100" DIA. Plungers

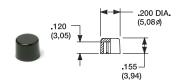


PART NO.

465801000 WHITE 465802000 BLACK

Material: Nylon Finish: Gloss

Cap, .120" DIA. Plungers



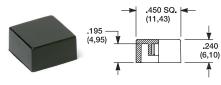
PART NO. 708901000 WHITE 708902000

Material: Nylon Finish: Gloss

Cap. .120" DIA. Plungers 1 000° MAX B.015 R.012 .065 ±.005 120 🛆 ø.310 CAVITY ID TUNNEL GATE AS CLOSE 6X 45 ° X .010 CHAMFER OR .010 R. LEAD IN AS POSSIBLE TO THIS SURFACE. PART NO. 891D01000 WHITE 891D02000 BLACK

Material: Nylon Finish: Gloss

Cap, J81 option only



PART NO.

484601000 WHITE 484602000 BLACK

Material: Nylon Finish: Gloss

PART NO. 798201000 WHITE 798202263 BLACK

Material: Nvlon Finish: Matte

NOTE: Additional nuts, locking rings and lockwashers available separately, see section "Technical Data and Additional Hardware" Other cap colors available, consult Customer Service Center.

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

TYPICAL APPLICATION





.090" (2,29) PANEL THK. .125" (3,18) PANEL THK.

PART NO.

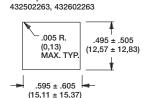
PART NO

432702263

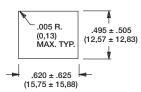
For part numbers

432802263 BLACK

PANEL MOUNTING



For part numbers 432702263, 432802263



Panel Inserts

LE.D. (.200 DIA. (5 SECURELY INTO INSERT HEIGHT DEPENDS ON PANEL P/N 8949 PANEL W/O L.E.D.

Above frames (part nos. 432XXXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. LED not included.

> PANEL INSERT WITH HOLE FOR LED

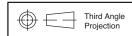
BLANK PANEL INSERT WITHOUT HOLE FOR LED

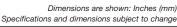
PART NO.

PART NO.

894902000

476602000 BLACK





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95CAP-011 95CAP-112 11-932.7 99-901.9 99-902.9 99-909.4 99-909.5 99-920.8 A0261A 11-931.2 11-932.5 11-936 AKTSC22B

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