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 typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

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

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.

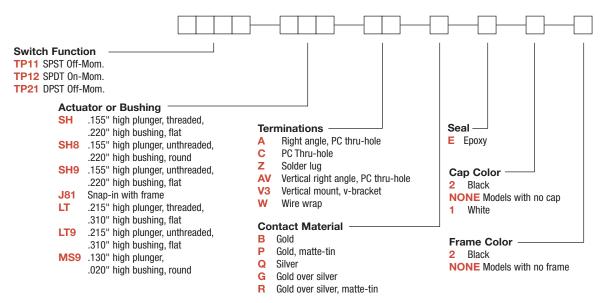
CENTER CONTACT & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page A-19 for additional contact materials.

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

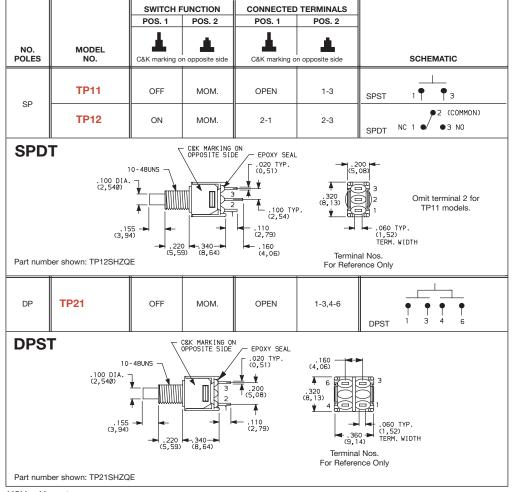
HARDWARE: Nut & Locking Ring: Brass nickel plated. Lockwasher: Steel, nickel plated.

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.







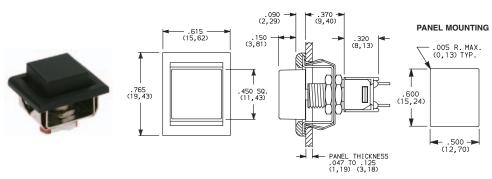
MOM. = Momentary

All models $_{\mbox{\tiny \scriptsize M}}$ 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.





SH .155" HIGH PLUNGER, .220" HIGH BUSHING, THREADED, FLAT

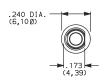
SH8 .155" HIGH PLUNGER, .220" HIGH BUSHING, UNTHREADED

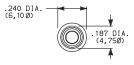
SH9 .155" HIGH PLUNGER, .220" HIGH BUSHING, UNTHREADED, FLAT

LT .215" HIGH PLUNGER, MS9 .310" HIGH BUSHING, THREADED

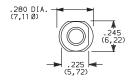
.130" HIGH PLUNGER

LT9 .215" HIGH PLUNGER, .310" HIGH BUSHING, UNTHREADED

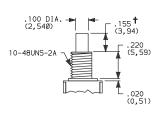


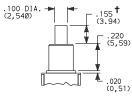


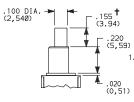


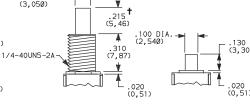












1/4 IN. BUSHING

Standard with 7 C W terminations

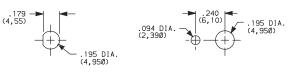
Standard with A AV V3 terminations

Not available with Z terminations

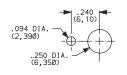
† Subtract .016 (0,41) for models with A, AV or V3 terminations. NOTE: Caps available for plunger options, see page A-20.

PANEL MOUNTING

10-48 BUSHING



.250 DI



Without locking ring

With standard locking ring

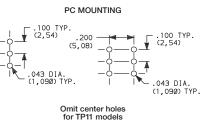
TERMINATIONS

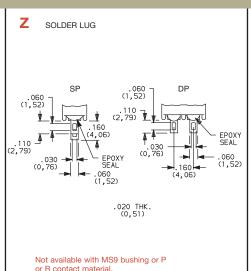
Without locking ring

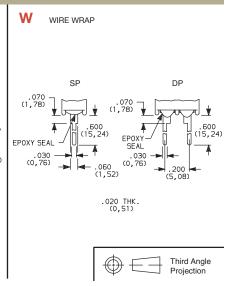
With standard locking rin

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"

PC THRU-HOLE SP DP .030 PC MOUNTING (5,08)



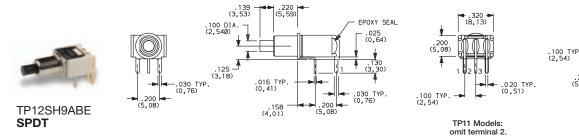




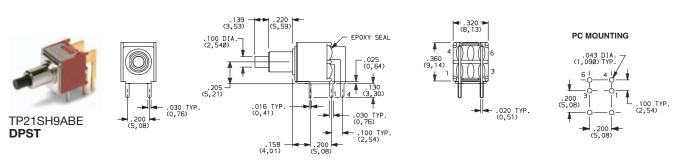


TERMINATIONS ----

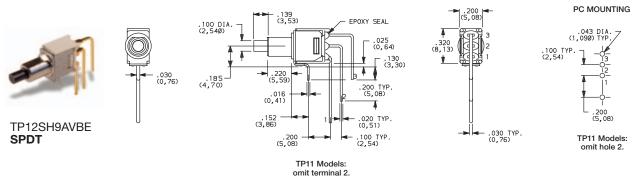
A RIGHT ANGLE, PC THRU-HOLE



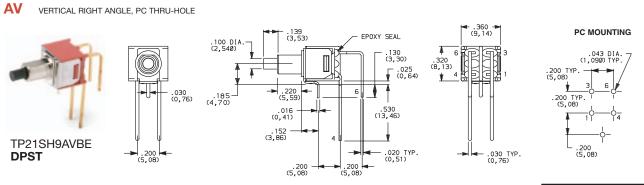
A RIGHT ANGLE, PC THRU-HOLE



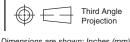
AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



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



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



PC MOUNTING

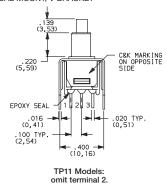
TP11 Models: omit hole 2.

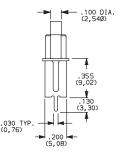
.200 (5,08)

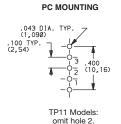


TERMINATIONS

VERTICAL MOUNT, V-BRACKET



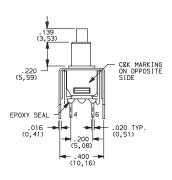


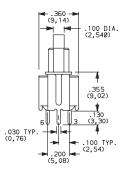


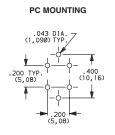


TP12SH9V3BE **SPDT**

V3 VERTICAL MOUNT, V-BRACKET









TP21SH9V3BE **DPST**

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	00101	GOLD ¹	LOWER FLIFT (PRIV OIDOURT	
Р	GOLD ¹	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 1 AMP @ 120 V AC OR 28 V DC.
R		MATTE-TIN ⁶		

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

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

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

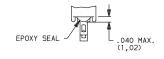
B contact material standard with A. AV. V3 & W terminations.

Q contact material standard with C & Z terminations

P. R contact materials not available with Z terminations.

SEAL

EPOXY SEAL







¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

² END CONTACTS: Coin silver, with gold plate over nickel plate.

³ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

⁴ END CONTACTS: Coin silver, silver plated.

 $^{^{\}rm 5}$ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

⁶ TERMINALS: Copper alloy, with matte-tin over nickel plate.

AVAILABLE HARDWARE



PART NO. 508101000 WHITE

508102000 Material: Nylon Finish: Gloss

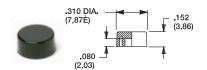
-200 DIA - .155 (3,94) .081

PART NO. 538701000 WHITE BLACK

Cap. .100" DIA. Plungers

Material: Nylon Finish: Gloss

Cap, .100" DIA. Plungers

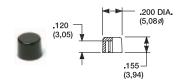


PART NO.

465801000 WHITE

Material: Nylon Finish: Gloss

Cap, .120" DIA. Plungers



PART NO. 708901000 WHITE 708902000 BLACK

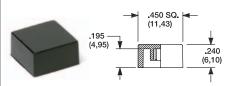
Material: Nvlon Finish: Gloss

Cap, .120" DIA. Plungers (.301 .090 1.000° MAX B.012 .065 ±.005 120 4 CAVITY ID 6X 45 ° X .010 CHAMFER OR .010 R. LEAD IN PART NO. 891D01000 WHITE

891D02000 BLACK

Material: Nylon Finish: Gloss

Cap, J81 option only



PART NO.

484601000 WHITE 484602000 BLACK

Material: Nvlon Finish: Gloss

PART NO.

798201000 WHITE 798202263 BLACK

Material: Nylon

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.

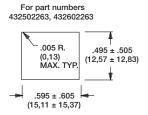
TYPICAL APPLICATION





.047" (1.19) PANEL THK. .062" (1.57) PANEL THK. .090" (2.29) PANEL THK. .125" (3.18) PANEL THK. PART NO. PART NO. PART NO. PART NO. 432502263 432602263 432702263 432802263 BLACK

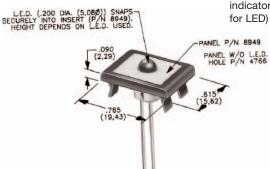
PANEL MOUNTING



For part numbers 432702263, 432802263 .005 R. .495 ± .505 (0,13) MAX. TYP. $(12,57 \pm 12,83)$.620 ± .625

 $(15,75 \pm 15,88)$

Panel Inserts



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

BLACK

PART NO. 894902000 PART NO.

476602000





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79211759 MG12KB MH11 MH13 MHU31 MJ1216 MJ1226 MJ33 MJ612 MJ626 MJ627 9001T8BK 908-1634 92-343.200 92-343.400

95804.920 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 AT496H AW-RF8 161006 1825068-6 184-1872 187-1872 188-1471 18-920.1 1DFBLK