

Features/Benefits

- Long travel
- Available with LED
- Long life contact design
- Epoxy terminial seal compatabile with bottom wash cleaning
- RoHS compliant models available

Materials

Typical Applications

- Instrumentation
- Computers and peripherals
- Telecommunications and networking equipment



Specifications

CONTACT RATING: Q contact material: 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC. See page A-59 for additional ratings.

ELECTRICAL LIFE: 50,000 make-and-break cycles at full load.

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: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 65°C

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

CAP INSTALLATION FORCE: 10 lbs. maximum permissible.

NOTE: Any models supplied with P, R, S, Q, B 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.

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

PLUNGER: S, S1, S2 Options: Glass filled nylon or glass filled polyester (PBT) (UL 94V-0). L, L1 Options: Brass, nickel plated.

CAP & FRAME: Nylon, black standard.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

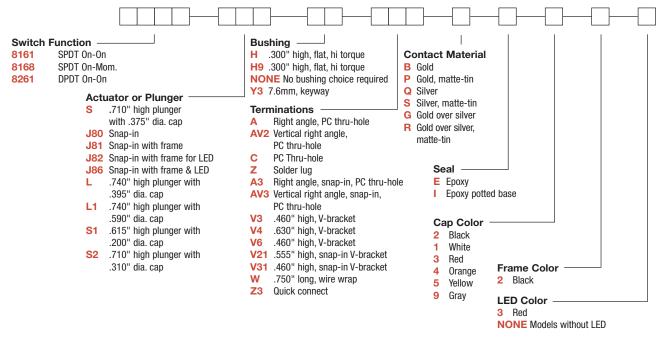
END CONTACTS: Q contact material: Coin silver, silver plated. See page A-59 for additional contact materials.

CENTER CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-59 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.

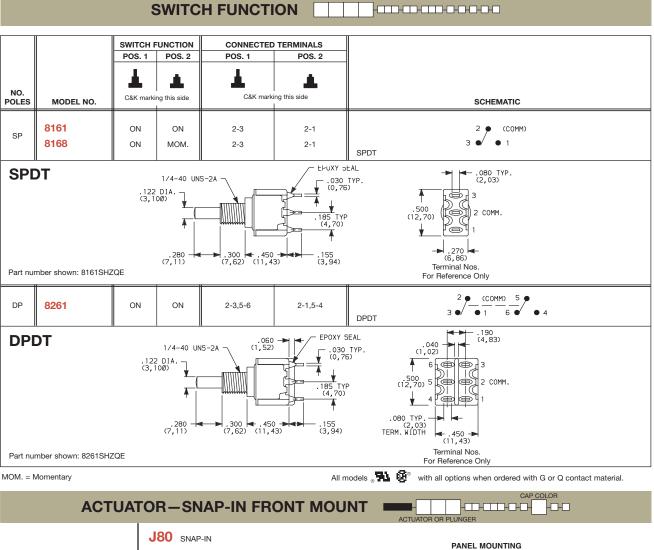
Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-53 thru A-61. 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.





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



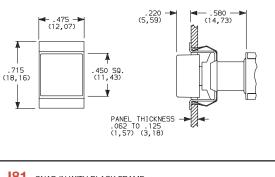
OPTION CODE	CAP COLOR	
2	BLACK	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
9	GRAY	

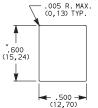
Cap Finish: matte. Other colors available, consult Customer Service Center.

Available with C, W, Z or Z3 terminations. NOTE: Caps & frames available

separately, see pages A-60 and A-61.



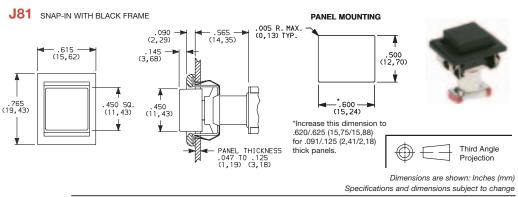




A

Pushbutton

*Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,41/2,18) thick panels.



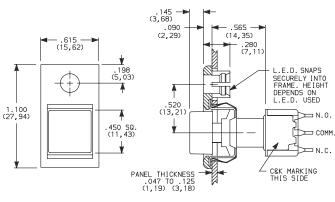
www.ck-components.com

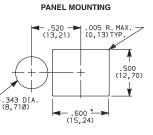
ACTUATOR-SNAP-IN FRONT MOUNT

-0-0 ACTUATOR OR PLUNG

J82 SNAP-IN WITH BLACK FRAME FOR LED







* Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thick panels.

PANEL MOUNTING

.500 -

* Increase this dimension to .620/.625 (15,75/15,88)

for .091/.125 (2,31/3,18) thick panels

.005 R. MAX. (0,13) TYP.

Available with C. W. Z or Z3 terminations.

LED not included. For LED information, see page A-61.

NOTE: Caps & frames available separately, see pages A-60 and A-61.

Other colors available, consult Customer Service Center.

OPTION CODE	CAP COLOR		
2	BLACK		
1	WHITE		
3	RED		
4	ORANGE		
5	YELLOW		
9	GRAY		

.090 (2,29)

ACTUATOR-SNAP-IN FRONT MOUNT

LED COLOR ACTUATOR OR PLUNGER

SHORT LEAD IS CATHODE

⊐ N.C.

≥ N.O

сомм.

C&K MARKING ON OPPOSITE SIDE

LED COLOR

RED

For LED information, see page A-61.

-.562 -(14,27)

PANEL THICKNESS .047 TO .125 (1,19) (3,18)

OPTION

CODE

3

P

CAP COLOF

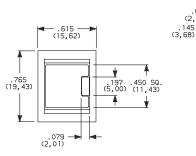
T

.600 (15,24)

٧

J86 SNAP-IN WITH BLACK FRAME AND LED





8161J86ZQE223 SPDT

Available with C, W, Z or Z3 terminations and SPDT models only.

NOTE: Caps & frames available separately, see pages A-60 and A-61.

Downloaded from Elcodis.com electronic components distributor

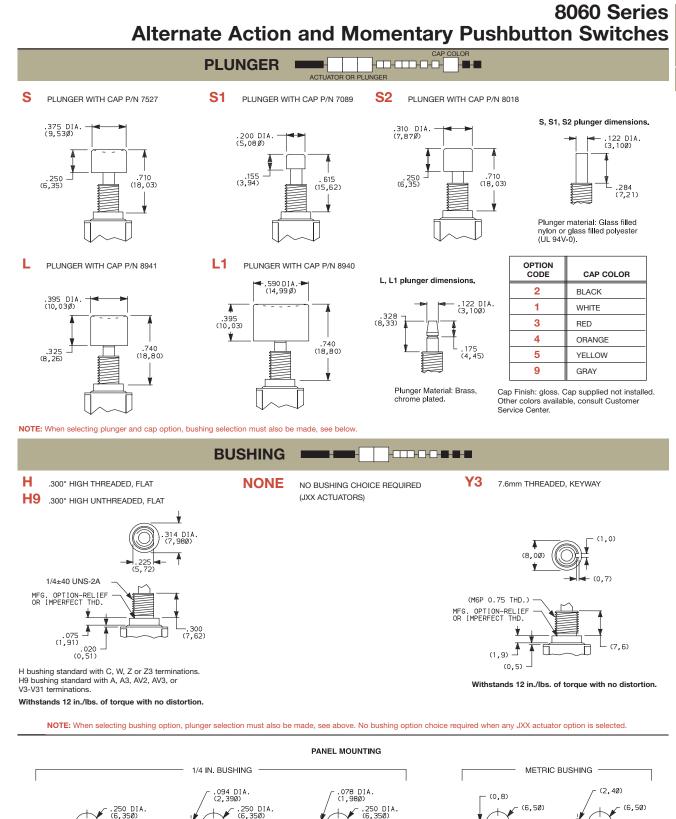
Other colors available, consult Customer Service Center.

OPTION CODE	CAP COLOR		
2	BLACK		
1	WHITE		
3	RED		
4	ORANGE		
5	YELLOW		
9	GRAY		



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

Third Angle Projection



Without Locking Ring

Additional Hardware"

96.

.250 DIA. (6,350)

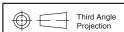
NOTE. Two mounting nuts, locking ring and lockwasher supplied standard with threaded bushings. Optional mounting nut and locking ring styles and finishes available, see section "Technical Data and



(0,8) (6,50) (6,50) (6,3) (6,3)

Without Locking Ring

With Locking Ring



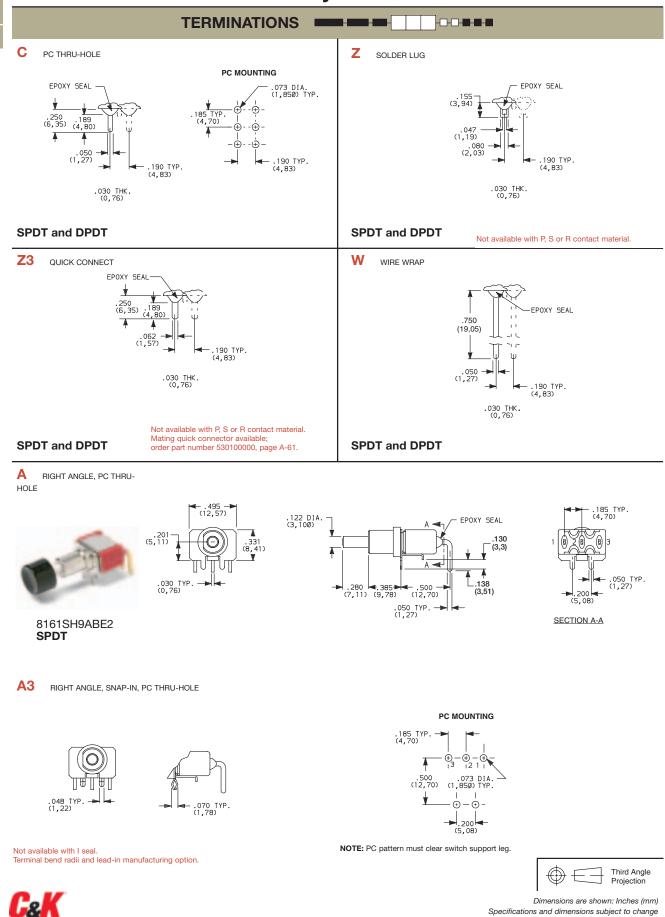
Dimensions are shown: Inches (mm)

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

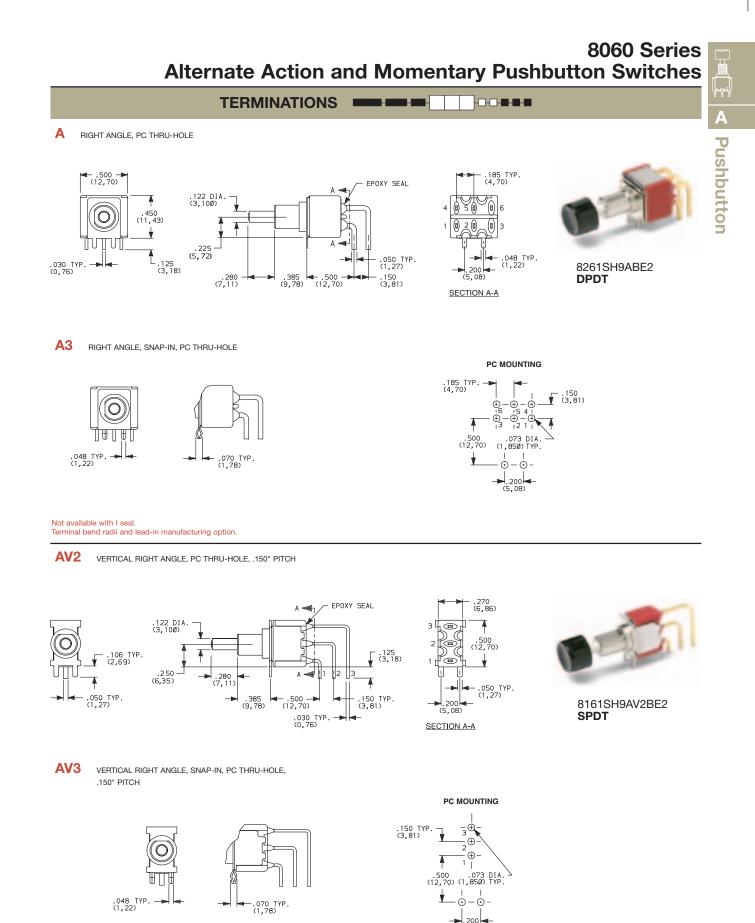
Downloaded from Elcodis.com electronic components distributor

www.ck-components.com





www.ck-components.com



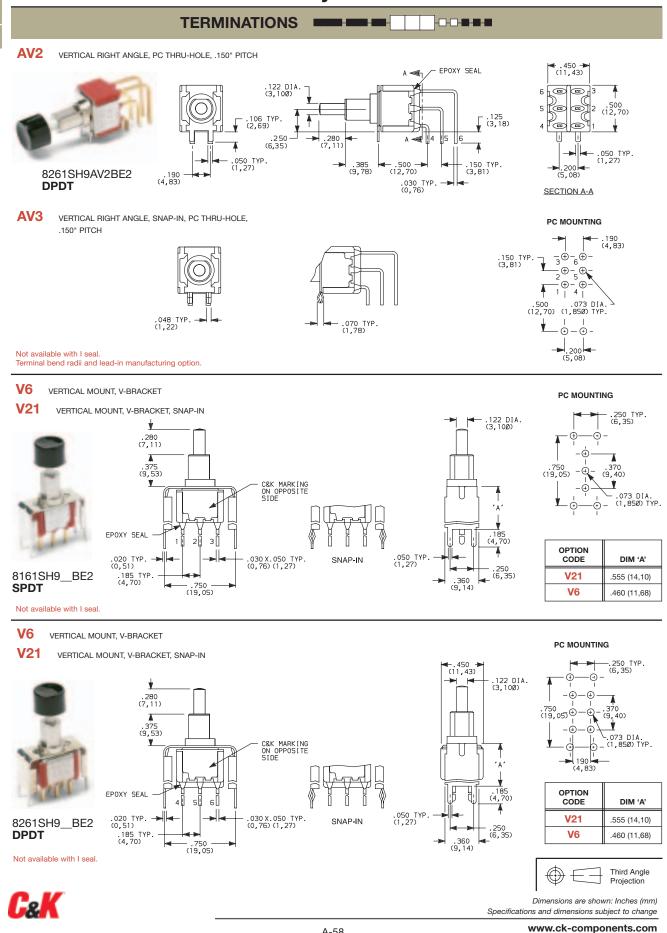
Not available with I seal. Terminal bend radii and lead-in manufacturing option.

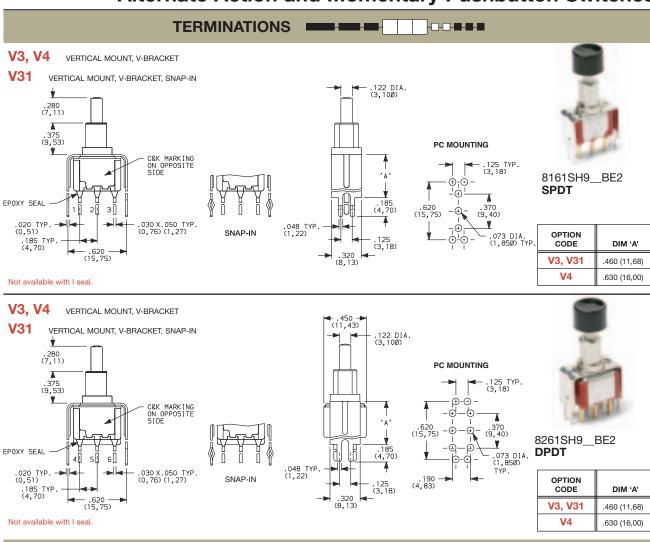


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

Third Angle Projection

(5,08)





OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS		
В	GOLD 1	GOLD 1			
Р	GOLD	MATTE-TIN ⁶	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.	
Q		SILVER 5		6 AMPS @ 120 V AC OR 28 V DC:	
S	SILVER ^{4,5}	MATTE-TIN ⁶	POWER	3 AMPS @ 250 V AC.	
G	GOLD OVER	GOLD ³		0.4 VA MAX @ 20 V AC OR DC MAX. OR	
R	SILVER 2,3	MATTE-TIN ⁶	LOW LEVEL/DRY CIRCUIT OR POWER	6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.	

* 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.

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, S, R,Q, B or G contact material are RoHS compliant.



P, S & R contact materials not available with Z & Z3 terminations.

All models **N** & with all options when ordered with S, R, G, or Q

B contact material standard with all terminations except C, Z & Z3.

Q contact material standard with C, Z & Z3 terminations.

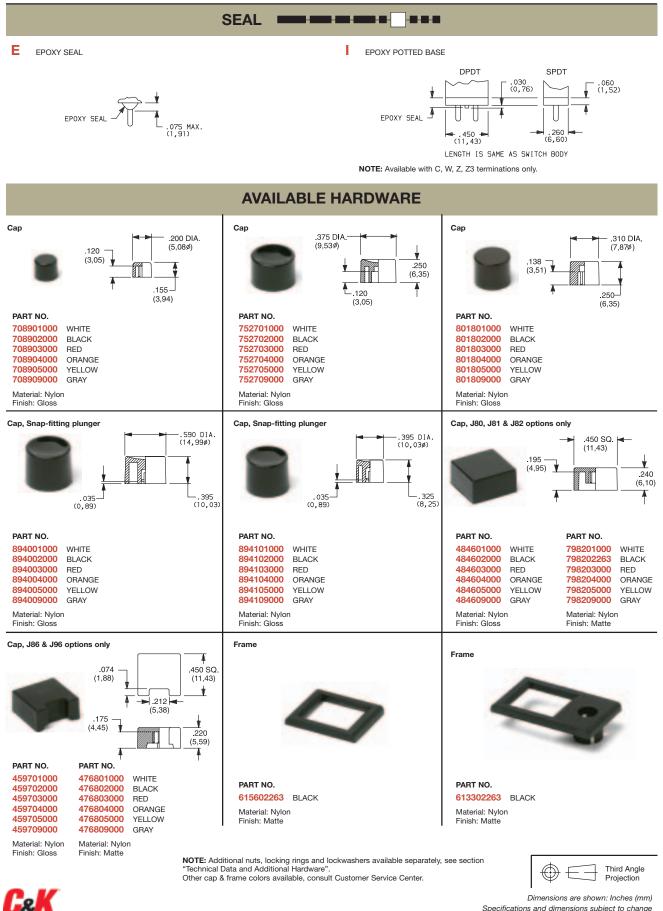


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change A

Pushbutton

A-59

contact material.



www.ck-components.com

Specifications and dimensions subject to change

AVAILABLE HARDWARE

Fits Z3 Termination female connector

PART NO.

530100000

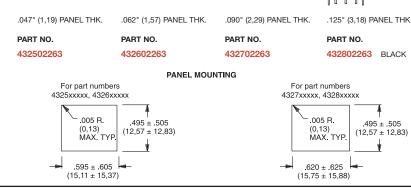
Available in loose pieces



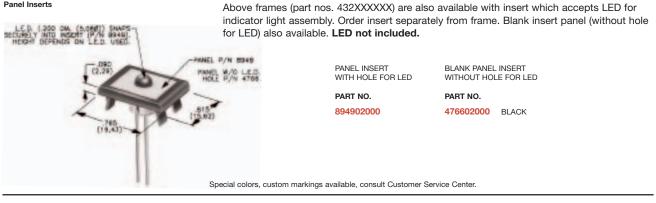
Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon.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



Pushbutton



Panel Inserts



LED INFORMATION

SWITCHES WITH LED SUPPLIED: J86 OPTION:

Rectangular LEDs are supplied on 8060 Series pushbutton switches with J86 option. These LEDs are factory installed and are not replaceable. The following specifications apply:

			TYP.	TYP.	MAX RATINGS AT 25°C AMBIENT TEMPERATURE			Flat denotes		
OPTION CODE	COLOR	TYP. INTENSITY	FORWARD VOLTAGE	FORWARD CURRENT	FORWARD VOLTAGE	CONTINUOUS FORWARD CURRENT	POWER DISSIPATION	cathode200 DIA. TYP. (0,63)		
6	Green	1.0 mcd		20 mA		50 mA	125 mW			
3	Red*	0.5 mcd	2.1 V	10 mA	2.5 V	30 mA	75 mW	.230 DIA		
5	Yellow	4.0 mcd		20 mA		50 mA	125 mW	.340 .750 (8,64) .750		

Process Information: Soldering to LED leads must be completed within 5 seconds at 500°F (260°C) maximum.

Caution: Circuit elements must limit forward current of LED to 50mA max. continuous.

* Extra-bright red LED available (typ. intensity 4.5 mcd), consult Customer Service Center.

LEDs are not supplied with J82 & J84 options. LED snaps into switch frame surrounding actuator and is wired externally.



Suggested LED for J82 & J84 options. Dimensions for reference only.

Third Anale Projection

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