

Features/Benefits

- Long travel
- Available with LED
- Long life contact design

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-53 for additional ratings.
- ELECTRICAL LIFE: 50,000 make-and-break cycles at full load.
- CONTACT RESISTANCE: Below 20 mΩ 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: 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, tin plated.

END CONTACTS: Q contact material: Coin silver, silver plated. See page A-53 for additional contact materials.

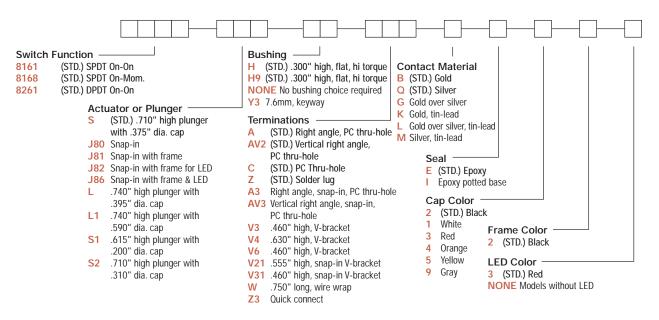
CENTER CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-53 for additional contact materials.

TERMINAL SEAL: Epoxy

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

Build-A-Switch

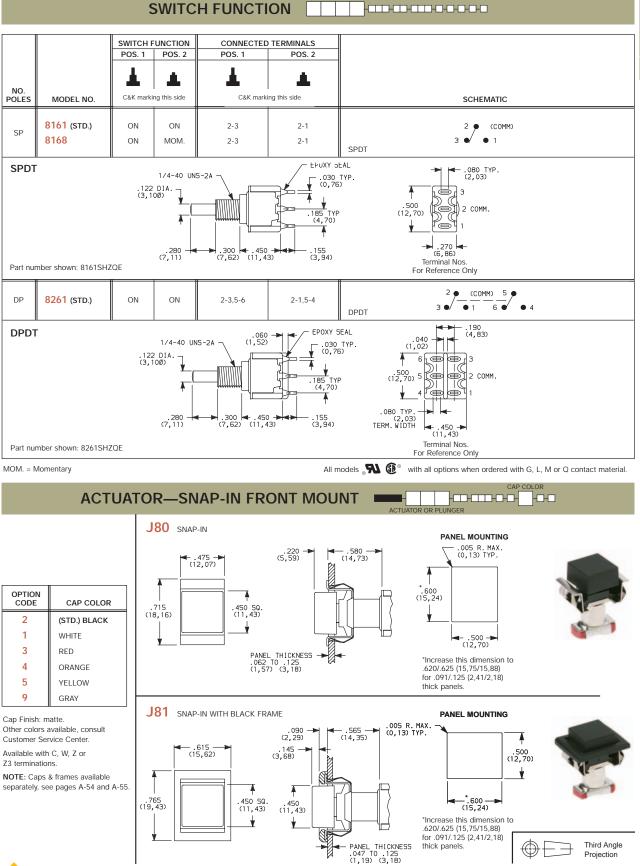
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-47 thru A-54. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.





Dimensions are shown: IN (mm) Dimensions subject to change

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Dimensions are shown: IN (mm) Dimensions subject to change

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es es A Pushbutton

ACTUATOR—SNAP-IN FRONT MOUNT

J82 SNAP-IN WITH BLACK FRAME FOR LED .145 (3,68) .090 - .565 -(14,35) -.615 -(15,62) .280 PANEL MOUNTING D Ŵ L.E.D. SNAPS SECURELY INTO FRAME. HEIGHT DEPENDS ON L.E.D. USED .198 .005 R. MAX. -- .520 -(13,21) ſſ ÷ E A Ā U .520 1.100 A <u>→</u> N.O. .500 .450 SQ. (11,43) ¥ 🖂 сомм. .343 DIA. (8,710) ¥ ٢ ⊐ N.C. -.600 *-(15,24) PANEL THICKNESS .047 TO .125 (1,19) (3,18) C&K MARKING THIS SIDE * Increase this dimension to .620/.625 (15,75/15,88) Available with C, W, Z or Z3 terminations for .091/.125 (2,31/3,18) thick panels. LED not included For LED information, see page A-55 NOTE: Caps & frames available

separately, see pages A-54 and A-55. Other colors available, consult

Customer Service Center.

Pushbutton >

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

.145 -(3,68)

ACTUATOR—SNAP-IN FRONT MOUNT

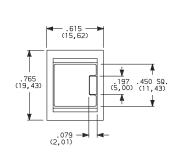
LED COLOR AP COLOR ------ACTUATOR OR PLUNGE

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J86 SNAP-IN WITH BLACK FRAME AND LED





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

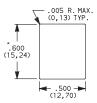
NOTE: Caps & frames available separately, see pages A-54 and A-55.

Other colors available, consult Customer Service Center.

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

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



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

OPTION CODE	LED COLOR		
3	(STD.) RED		

For LED information, see page A-55

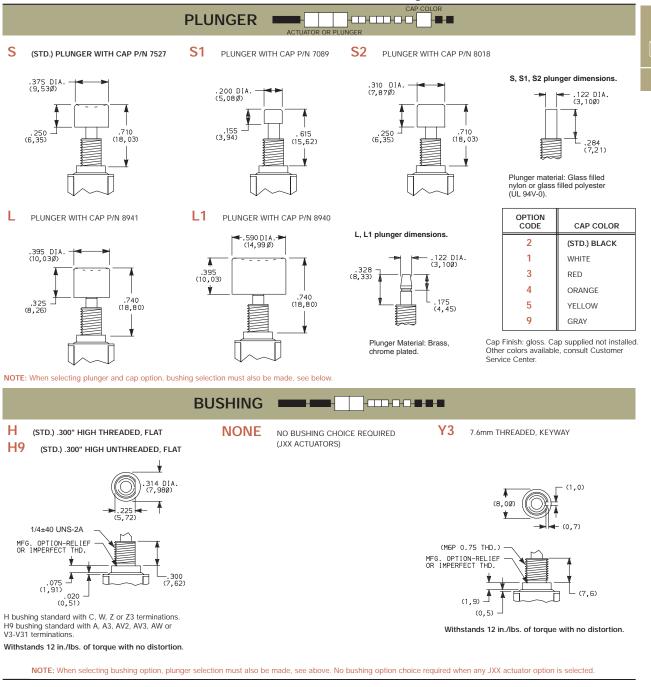
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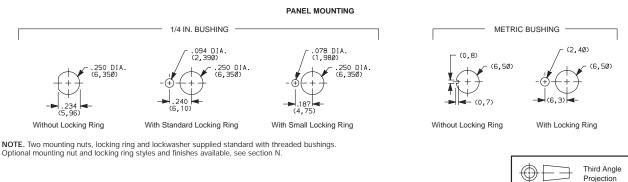
Dimensions are shown: IN (mm) Dimensions subject to change

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A-49

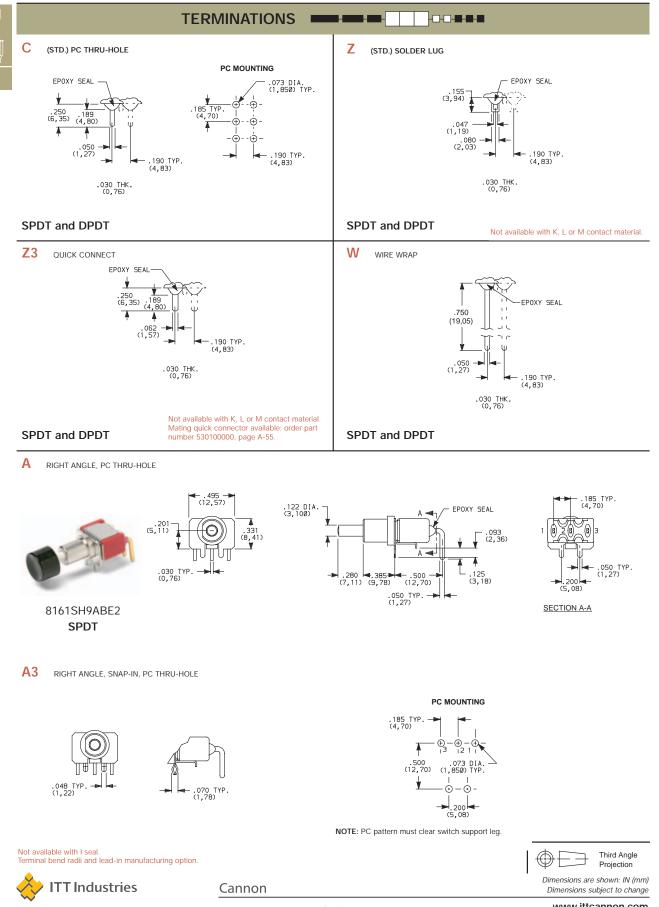
Dimensions are shown: IN (mm) Dimensions subject to change

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A

Pushbutton

Pushbutton >



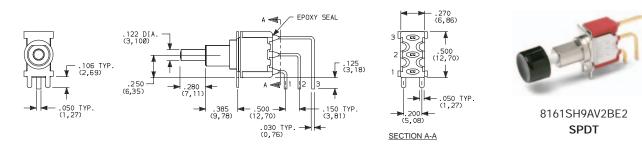
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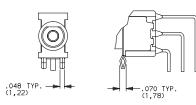
Α RIGHT ANGLE, PC THRU-HOLE - .500 -(12,70) .185 TYP. (4,70) EPOXY SEAL .122 DIA. (3,100) (8) .450 О (8 (8 ¥ Α ◄ .225 L.125 (3,18) .048 TYP. (1,22) .050 TYP. .030 TYP. (0,76) 8261SH9ABE2 200 .280 (7,11) .385 (9,78) ⊢.500 -(12,70) .150 (3,81) (5,08) DPDT SECTION A-A **A**3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE PC MOUNTING .185 TYP. -(4,70) .150 (3,81) • .500 073 DI 850 .048 TYP. (1,22) .070 TYP. (1,78) 200 (5.08)Not available with I seal. Terminal bend radii and lead-in manufacturing option.

TERMINATIONS

AV2 (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



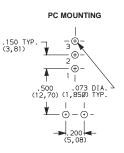
AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



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

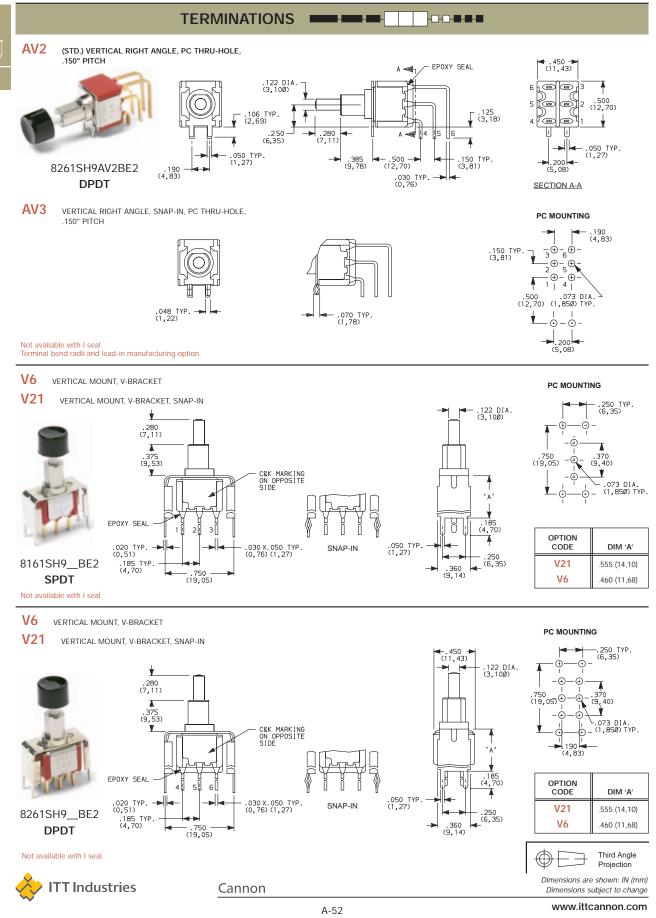


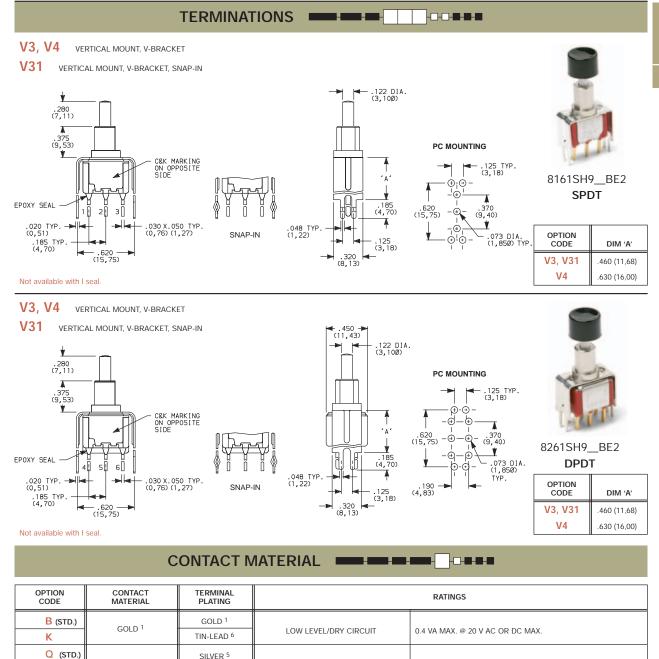
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Dimensions are shown: IN (mm) Dimensions subject to change





CONTACT MATERIAL/APPLICATION RECOMMENDATIONS-SEE SECTION N.

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

M G

L

⁴ END CONTACTS: Coin silver, silver plated.

⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.

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



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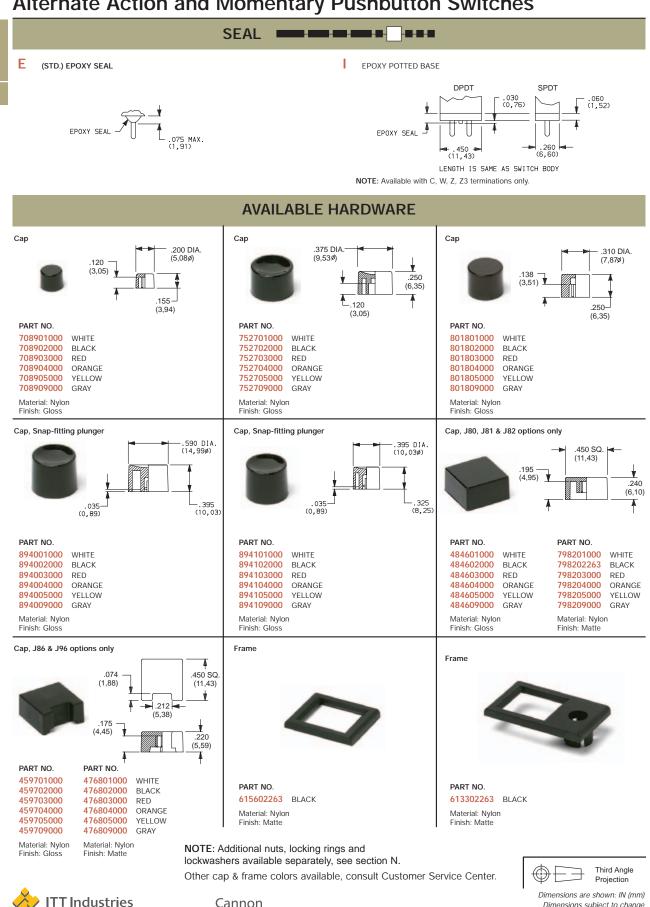
All models **All @**[®] with all options when ordered with G, L, M or Q contact material. B contact material standard with all terminations except C, Z & Z3. O contact material standard with C, Z & Z3 terminations.

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

K, L & M contact materials not available with Z & Z3 terminations.



Dimensions are shown: IN (mm) Dimensions subject to change Pushbuttor



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Dimensions subject to change

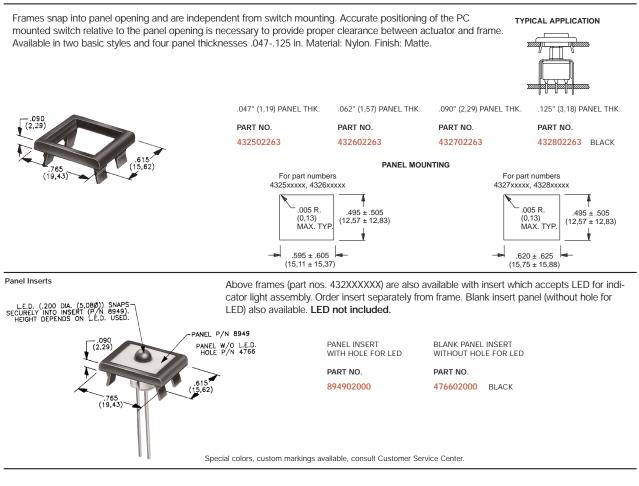
AVAILABLE HARDWARE

Fits Z3 Termination female connector

PART NO. 530100000

Available in loose pieces.





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 RAT	NGS AT 25°C AMBIENT T	EMPERATURE	Flat denotes	.025 SQ.
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		.030
5	Yellow	4.0 mcd		20 mA		50 mA	125 mW	(5,64)	.340 .750 (19,05)

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.

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Dimensions are shown: IN (mm) Dimensions subject to change

Suggested LED for J82 & J84 options.

Dimensions for reference only.