#### Features/Benefits

- Positive tactile feel
- Multi-positions available
- Wide variety of termination options
- Epoxy terminal seal compatible with bottom wash cleaning
- RoHS compliant models available



Models Available

#### Specifications

- CONTACT RATING: B contact material (8X25 Models): 0.4 VA max. @ 20 V AC or DC maximum. G contact material (8X21, U8X1 Models): 1 AMP @ 120 V AC or 28 V DC or 0.4 VA max. @ 20 V AC or DC max. Note: Break-before-makecontacts. Multi-pole contacts do not make and break simultaneously. See page A-43 for additional ratings.
- ELECTRICAL LIFE: 60,000 make-and-break cycles at full load.
- CONTACT RESISTANCE: Below 50 m
   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: 8X2X MODELS: -30°C to 75°C.
- U8X1 MODELS: -30°C to 65°C.

CAP INSTALLATION FORCE: 10 lbs. max. permissible.

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

NOTE: Any models supplied with 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.

#### Typical Applications

- Instrumentation
- Computer peripherals
- **Telecommunications equipment**



Pushbutto

#### **Materials**

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

CAP & FRAME: Nylon, black, standard.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

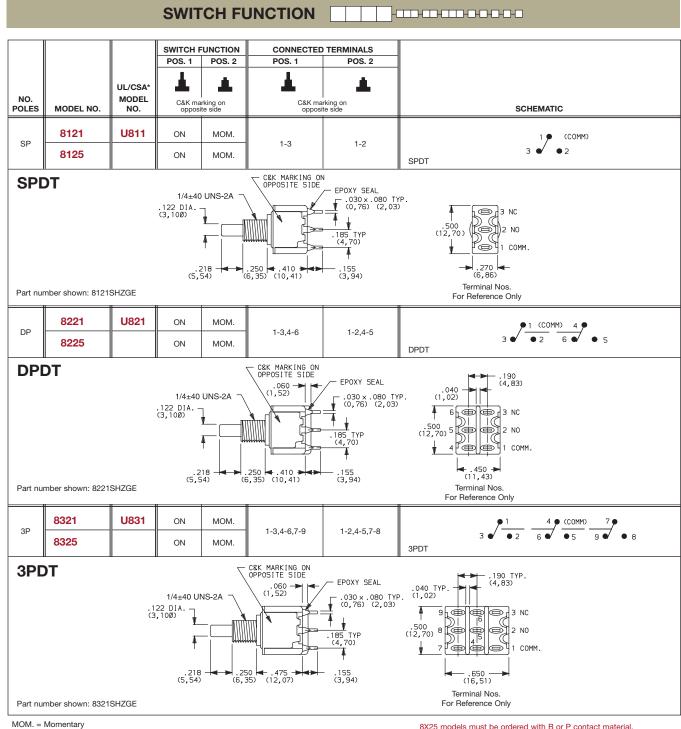
- SWITCH SUPPORT: Brass or steel, matte-tin plated.
- N.O. & N.C. CONTACTS: 8X21, U8X1 MODELS: G contact material: Coin silver, with gold plate over nickel plate. See page A-43 for additional contact materials. 8X25 MODELS: B contact material: Copper alloy, with gold plate
  - over nickel plate. See page A-43 for additional contact materials.
- COMMON CONTACT & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- TERMINAL SEAL: Epoxy. Refer to soldering and cleaning 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-30 thru A-45. 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.

Note: UL models       J83       Snap-ii         available, see page A-30       J84       Snap-ii         and A-31.       J85       Snap-ii         J85       Snap-ii       J85         J85       Snap-ii       J85         J85       Snap-ii       J95         PC w/V       L       Plunge	<ul> <li>choice required</li> <li>choice required</li> <li>choice required</li> <li>D .280° high, keyway</li> <li>D .288° high, flat</li> <li>D .3180° high</li> <li>D .288° high, flat</li> <li>D .288° high, flat</li> <li>D .250° high, flat, hi torque</li> <li>Y .350° high, keyway</li> <li>Y .350° high, keyway</li> <li>Y .350° high, keyway</li> <li>Y .378° high, flat, hi torque</li> <li>Y .350° high, flat, hi torque</li> <li>Y .378° high, flat, hi torque</li> <li>Y .350° high, keyway</li> </ul>	Contact Material B Gold P Gold, matte-tin G Gold over silver R Gold over silver, matte-tin Seal E Epoxy I Epoxy potted base Cap Color 2 Black NONE Models without caps 1 White	Frame Color 2 Black NONE Models without frame 1 White 3 Red 5 Yellow 6 Green 9 Gray LED Color 3 Red 4 Orange 5 Yellow 6 Green 5 Yellow 6 Green 5 Yellow 7 Blue 6 Green
Terminations         A       Right angle, PC thru-hole         AV2       Vertical right angle, PC thru-hole         C       PC Thru-hole         Z       Solder lug         A2       Right angle, PC thru-hole         A3       Right angle, Snap-in, PC thru         Image: Solder lug       A2         A3       Right angle, Snap-in, PC thru         Image: Solder lug       A2         A3       Right angle, Snap-in, PC thru	A4 Right angle, PC thru-hole, reversed term A6 Right angle, PC thru-hole AV1 Vertical right angle, PC thru-hole AV3 Vertical right angle, snap-in, PC thru-ho R Right angle with PCB	3       Red         ninals       V2       .555" high, V-bracket         V3       .460" high, V-bracket         V4       .630" high, V-bracket         V6       .460" high, V-bracket         V6       .460" high, V-bracket         V7       .630" high, V-bracket	<ul> <li>9 Gray</li> <li>V31 .460" high, snap-in V-bracket</li> <li>V61 .460" high, snap-in V-bracket</li> <li>W .750" long, wire wrap</li> <li>W1 .964" long, wire wrap</li> <li>W3 .425" long, wire wrap</li> <li>W4 1.062" long, wire wrap</li> </ul>

s (mm) change



\*U811 thru U841 model numbers cmus with all options (except R, R2 terminations) when ordered with G or R contact mater

8X25 models must be ordered with B or P contact material. 8X21 and U8X1 models must be ordered with G or R contact material.

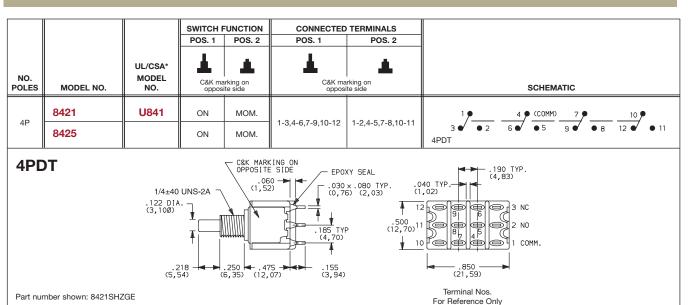


Pushbutton >

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

Third Angle Projection

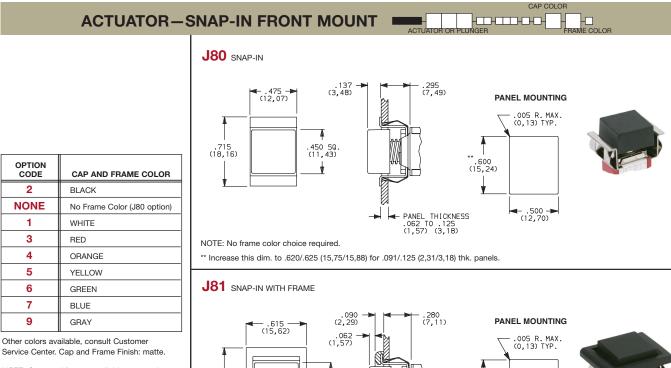
SWITCH FUNCTION



MOM. = Momentary

\* U811 thru U841 model numbers cmus with all options (except R, R2 terminations) when ordered with G or R contact material.

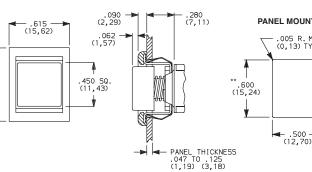
8X25 models must be ordered with B or P contact material. 8X21 and U8X1 models must be ordered with G or R contact material.



NOTE: Caps and frames available separately,

Service Center. Cap and Frame Finish: matte.

see pages A-44 and A-45.





NOTE: Available with C, W-W4, Z or Z3 terminations and SPDT and DPDT models only. f Increase this dim. to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

 $\bigoplus$ Projection

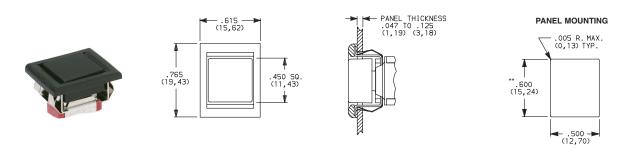
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

Third Angle

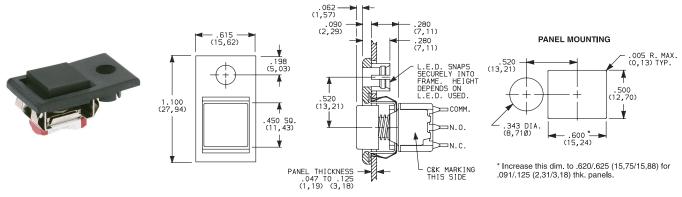
.765 (19,43)

ACTUATOR-SNAP-IN FRONT MOUNT 





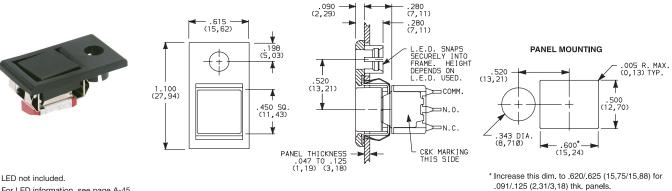
**J82** SNAP-IN WITH FRAME FOR LED



LED not included.

For LED information, see page A-45.

**J84** SNAP-IN WITH FRAME FOR LED, FLUSH CAP



For LED information, see page A-45.

OPTION CODE	CAP AND FRAME COLOR
2	BLACK
1	WHITE
3	RED
4	ORANGE
5	YELLOW
6	GREEN
7	BLUE
9	GRAY

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

Available with C, W-W4, Z or Z3 terminations and SPDT and DPDT models only.

NOTE: Caps and frames available separately, see pages A-44 and A-45.



# FRAME COLOR

8020 Series

8121J85ZGE223 SPST

Available with C, W-W4, Z or Z3 terminations and SPDT models only. For LED information see page A-45.

.079 (2,01)

**J85** 

.765 (19,43)

Ĩ

SNAP-IN WITH FRAME AND LED

- .615 -(15,62)

NOTE: Caps & frames available separately, see pages A-44 and A-45.

OPTION CODE	CAP AND FRAME COLOR	
2	BLACK	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
6	GREEN	
7	BLUE	
9	GRAY	

ACTUATOR-SNAP-IN FRONT MOUNT

Ø

.280

PANEL THICKNESS .047 T0 .125 (1,19) (3,18)

SHORT LEAD IS CATHODE

N.C.

N.O.

COMM. C&K MARKING OPPOSITE SIDE

.152 (3,86)

4

v

.197 .450 SQ. (5,00) (11,43)

ŧ

Å

OPTION CODE	LED COLOR	
3 RED		
5	YELLOW	
6 GREEN		
For LED information see page A-45		

**Snap-acting Momentary Pushbutton Switches** 

.600\*

¥

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

PANEL MOUNTING

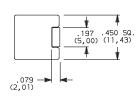
.005 R. MAX. (0,13) TYP.

> - .500 -(12**,**70)

\* Increase this dim. to .620/.625 (15,75/15,88) for

#### 

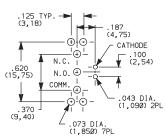
J95 PC WITH V-BRACKET AND LED



← .445 → (11,30)	(11,84) – SH	HORT LEAD CATHODE
		N.C.
		N.O.
		COMM.
		MARKING SITE SIDE

OPTION CODE	CAP AND FRAME COLOR	
2	BLACK	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
6	GREEN	
7 BLUE		
9 GRAY		

PC MOUNTING

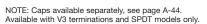


OPTION CODE	LED COLOR	
3 RED		
5	YELLOW	
6 GREEN		
For LED information see page A-45.		



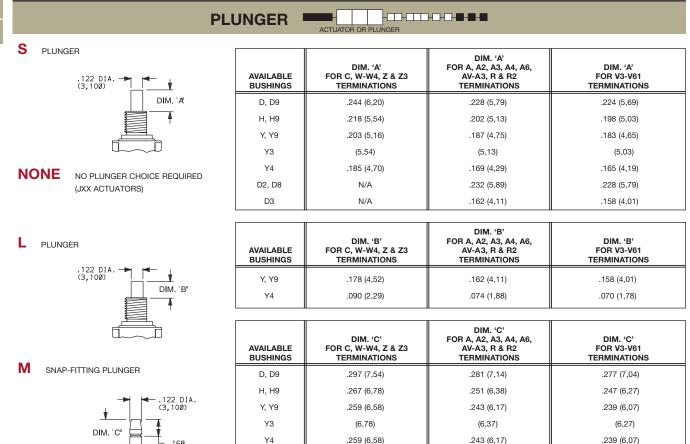
8121J95V3GE23 SPST







www.ckswitches.com



N/A = NOT AVAILABLE

D2, D8

D3

NOTE: When selecting plunger option, bushing selection must also be made, see next page. No plunger option is required when any JXX actuator option is selected. Additional plunger lengths are available on SPDT and DPDT models, consult Customer Service Center. Not all plunger lengths sufficient for use with caps, see page A-44.

.168 (4**,**27)

	ç	1, 1, 0		
		BUSHING		
NONE	NO BUSHING CHOICE REQUIRED (JXX ACTUATORS)	<ul> <li>280" HIGH THREADED, KEYWAY</li> <li>28034" HIGH UNTHREADED, KEYWAY</li> </ul>	<ul> <li>.250"34 HIGH THREADED, FLAT</li> <li>.250"34 HIGH UNTHREADED,</li> <li>FLAT</li> </ul>	<ul> <li>Y .350" HIGH THREADED, KEYWAY</li> <li>Y9 .350" HIGH UNTHREADED, KEYWAY</li> </ul>
		.028	.314 DIA. (7,980) .225 (5,72)	.028 (0,71)
		1/4-40 UNS-2A	1/4-40 UNS-2A MFG. OPTION-RELIEF OR IMPERFECT THD. .040 (1,02) .020 (0,51)	1/4-40 UNS-2A .350 (8,89)
		D9 bushing standard with A-A6, R, R2 AV-AV3 terminations.	H bushing standard with C, W-W4, Z or Z H, H9 bushings not available on single pol A3-A6, R, R2 terminations. Will withstand 12 in./lbs. of torque with no distortion.	
<b>C</b> &K	° 29 Aug 18		Sρ	Dimensions are shown: Inches (mm) ecifications and dimensions subject to change

N/A

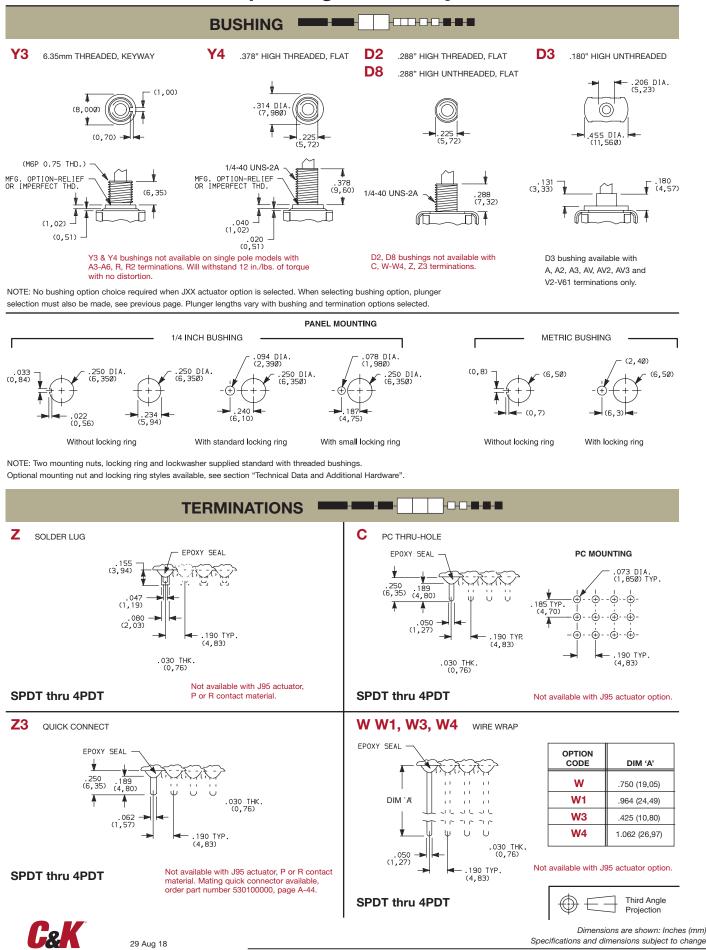
N/A

.273 (6,93)

.361 (9,17)

.269 (6,83)

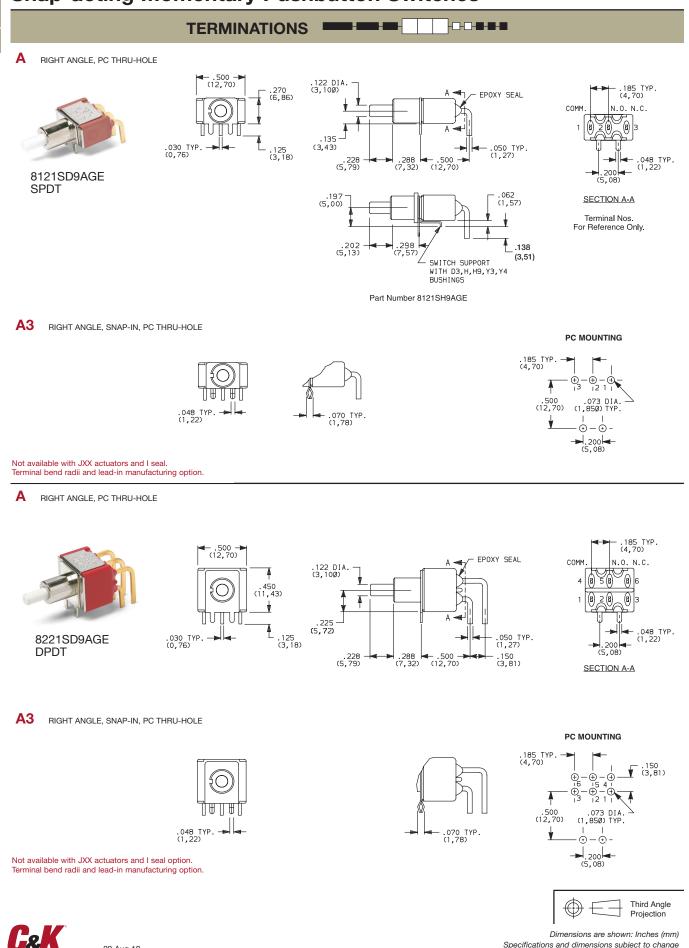
.357 (9,07)



www.ckswitches.com

A-35

Pushbutton >

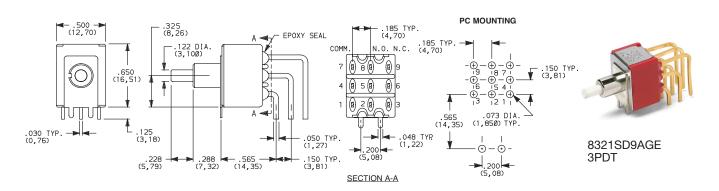


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

www.ckswitches.com

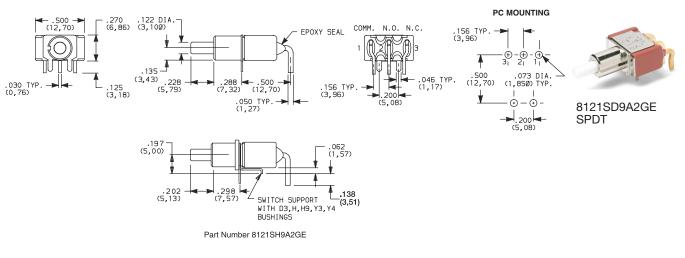
TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE



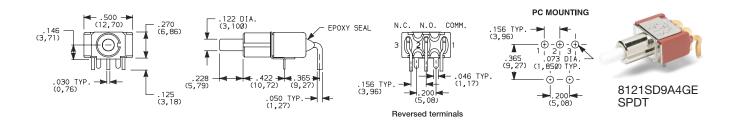
Not available with JXX actuators and I seal option. Terminal bend radii and lead-in manufacturing option

A2 RIGHT ANGLE, PC THRU-HOLE



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

A4 RIGHT ANGLE, PC THRU-HOLE, REVERSED TERMINALS



Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings and I seal. Terminal bend radii and lead-in manufacturing option.

The A4 and R2 termination options are functionally identical and fit the same PC mounting pattern. The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R2, the A4 option is available with UL/CSA.



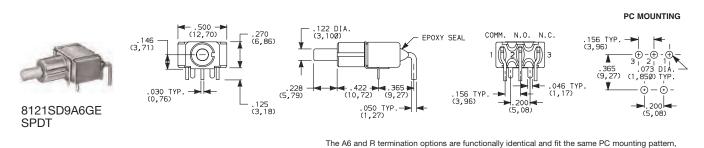
**C&K** 

29 Aug 18

#### TERMINATIONS

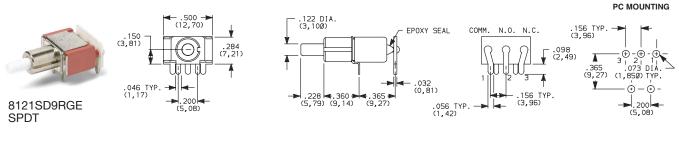
A6 RIGHT ANGLE, PC THRU-HOLE

Pushbutton >



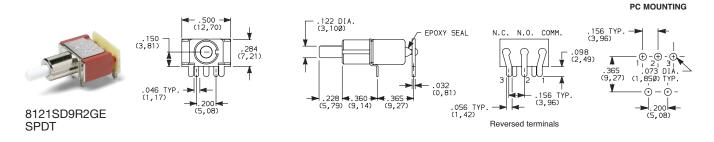
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings and I seal. Terminal bend radii and lead-in manufacturing option.

#### R RIGHT ANGLE WITH PCB



Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R termination not UL/CSA approved.

R2 RIGHT ANGLE WITH PCB, REVERSED TERMINALS



Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R2 termination not UL/CSA approved.





.270 (6,86)

4

**TERMINATIONS** 

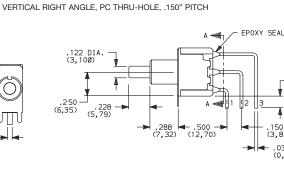
.150 TYP. (3,81)

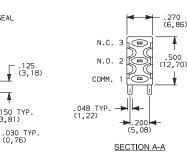
AV1

.048 TYP. (1,22)

.050 TYP. (1,27)

AV2





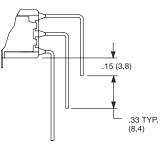


8121SD9AV2GE SPDT

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



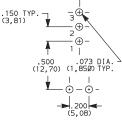
.070 TYP. (1,78)



VERTICAL RIGHT ANGLE, EXTENDED,

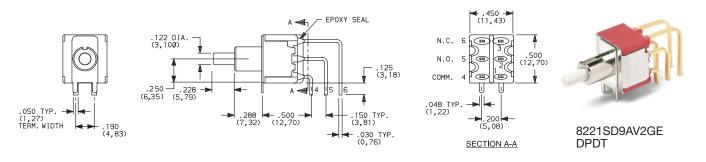
PC THRU-HOLE, .150" PITCH





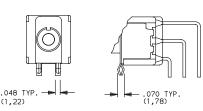
Not available with JXX actuators and I seal Terminal bend radii and lead-in manufacturing option.

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



AV3

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

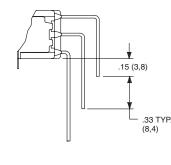


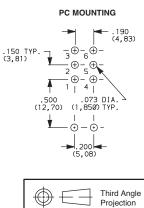
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

-e

(1,22)

AV1 VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH

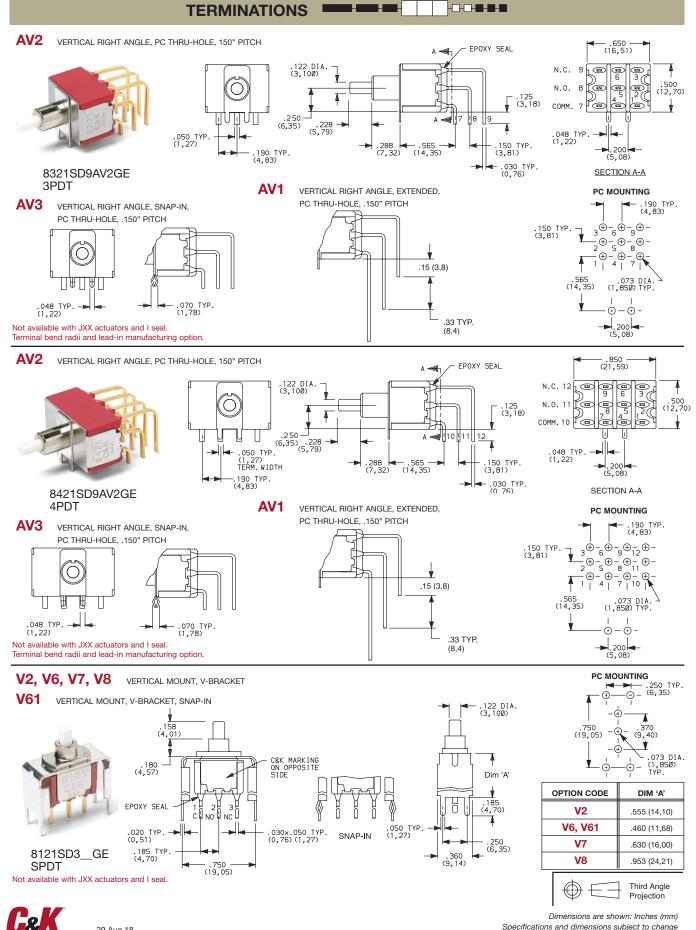




Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

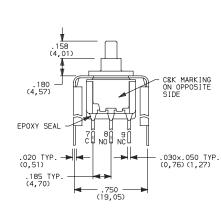
www.ckswitches.com

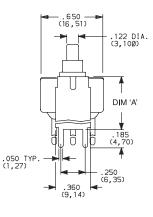


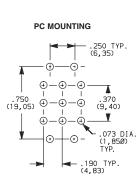
Specifications and dimensions subject to change

┝ᢕᢕ᠊᠊᠊᠊᠊᠊᠆᠊᠊᠊ -----**TERMINATIONS** V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN ← .450 → (11,43) .122 DIA. (3,10Ø) PC MOUNTING .158 (4,01) .250 TYP. (6,35) Θ C&K MARKING ON OPPOSITE SIDE 4 l. .180 Ð Ð Dim 'A' 8221SD3\_GE .370 (9,40) (19,05) -⊕ Ð DPDT ¥ ĥ ¥ EPOXY SEAL 5 NO 6 NC .185 Æ .073 DIA. (1,850) TYP. [ .050 TYP (1,27) .020 TYP. (0,51) .030x.050 TYP. (0,76)(1,27) SNAP-IN .250 (6,35) OPTION .185 TYP. (4,70) .190 CODE .360 (9,14) -.750 -(19,05) **V2** V6, V61 **V7 V**8 Not available with JXX actuators and I seal.

#### V2, V7, V8 VERTICAL MOUNT, V-BRACKET









DIM 'A'

.555 (14,10)

.460 (11,68)

.630 (16,00)

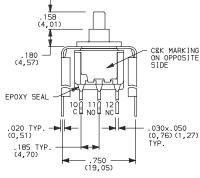
.953 (24,21)

8321SD3\_\_GE 3PDT

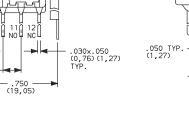
OPTION CODE	DIM 'A'	
V2	.555 (14,10)	
<b>V</b> 7	.630 (16,00)	
<b>V</b> 8	.953 (24,21)	

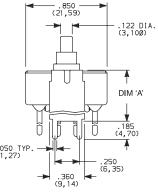
#### Not available with JXX actuators and I seal

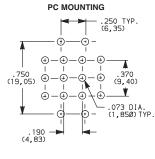




Not available with JXX actuators and I seal.







OPTION CODE

**V**2

**V**7

**V**8

DIM 'A'

.555 (14,10)

.630 (16,00)

.953 (24,21)



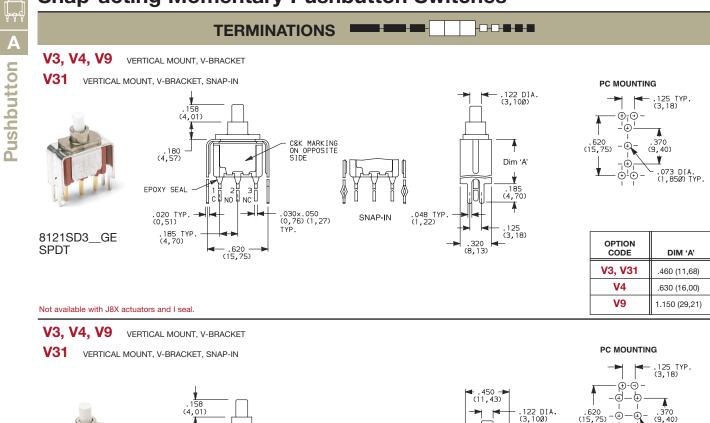
8421SD3\_\_GE 4PDT

${\oplus} \boxminus$	Third Angle Projection
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29 Aug 18

Dimensions are shown: Inches (mm)



C&K MARKING ON OPPOSITE SIDE

.030x.050 (0,76)(1,27) TYP.

SNAP-IN

.048 TYP

F

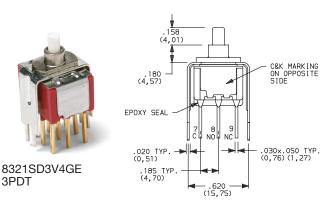
- .620 -(15,75)

## Not available with J8X actuators and I seal

8221SD3\_\_GE

DPDT

V4, V9 VERTICAL MOUNT, V-BRACKET



.180 (4,57)

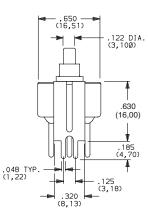
EPOXY SEAL

.020 TYP. (0,51)

> .185 TYP (4,70)







PC MOUNTING

¥

.073 DIA. (1,850) TYP.

DIM 'A'

.460 (11,68)

.630 (16,00)

1.150 (29,21)

Ð

OPTION

CODE

V3, V31

**V**4

**V**9

.190 (4,83)

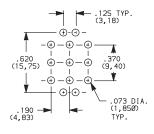
Dim 'A'

.185

4

.125 (3,18)

.320 (8,13) b-6

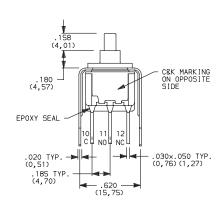


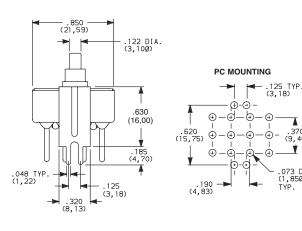


Third Angle Projection

<u>}</u>\_\_\_\_**₽\_₽**₽ TERMINATIONS

#### V4, V9 VERTICAL MOUNT, V-BRACKET







8421SD3V4GE 4PDT

370

(9,40)

¥

.073 DIA. (1,850)

TYP.

OPTION CODE	DIM 'A'	
<b>V</b> 4	.630 (16,00)	
<b>V</b> 9	1.150 (29,21)	

Not available with JXX actuators and I seal

#### CONTACT MATERIAL <u>}</u>\_\_\_\_∎\_∎

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
В	GOLD <sup>1</sup>	GOLD <sup>1</sup>	LOW LEVEL/DRY CIRCUIT	8x25 MODELS ONLY: 0.4 MAX.
Р	GOLD	MATTE-TIN <sup>4</sup>		@ 20 V AC OR DC MAX.
G	GOLD OVER SILVER 2,3	GOLD <sup>3</sup>	LOW LEVEL/DBY	8X21, U8X1 MODELS ONLY: 0.4 VA MAX
R	GOLD OVEN GIEVEN	MATTE-TIN <sup>4</sup>	CIRCUIT OR POWER	@ 20 V AC OR DC MAX. OR 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.

<sup>1</sup> ALL CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>2</sup> N.O. AND N.C. CONTACTS: Coin silver, with gold plate over nickel plate.

<sup>3</sup> COMMON CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate

<sup>4</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

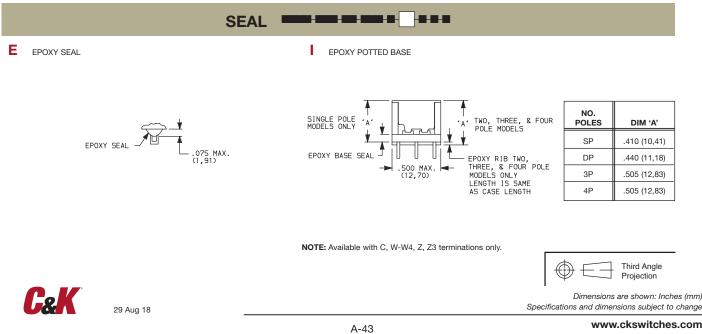
#### NOTE: Any models supplied with B, P, R or G contact material are RoHS compliant.

U811-U841 models  ${}_{\circ}$   $\mathbf{N}$   ${}_{\circ}$   ${}^{\circ}$  with all options (except R, R2 terminations) when ordered with mandatory G or R contact material.

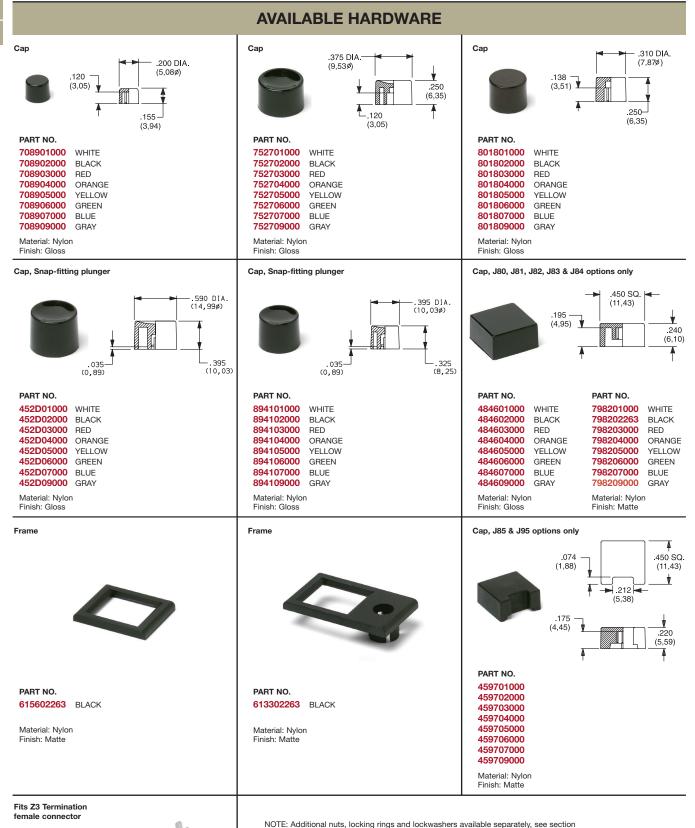
B or P contact material must be ordered with 8X25 models.

G or R contact material must be ordered with 8X21, U8X1 models.

P or R contact material not available with Z, Z3 terminations.



Pushbutton >



PART NO.

530100000



Available in loose pieces.



"Technical Data and Additional Hardware".

Other cap & frame colors available, consult Customer Service Center.

www.ckswitches.com

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

Third Angle Projection

#### AVAILABLE HARDWARE

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.





.090" (2,29) PANEL THK.

PART NO. 432702263

For part numbers

4325xxxxx, 4326xxxxx

005 B

MAX TYP

.595 ± .605 (15,11 ± 15,37)

(0, 13)

.495 ± .505

 $(12,57 \pm 12,83)$ 

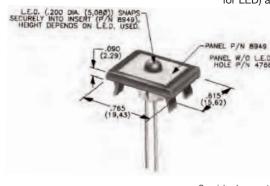
.125" (3,18) PANEL THK PART NO.

432802263 BLACK

PANEL MOUNTING

For part numbers 4327xxxxx, 4328xxxxx 005 R. (0,13)MAX. TYP.  $620 \pm .625$  $(15,75 \pm 15,88)$ 

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

Flat denotes

cathode

.230 DIA

(5.84)

200 DIA

(5.08))

PART NO.

894902000

BLANK PANEL INSERT WITHOUT HOLE FOR LED

PART NO. 476602000 BLACK

Special colors, custom markings available, consult Customer Service Center.

#### LED INFORMATION

SWITCHES WITH LED SUPPLIED: J85, J95 OPTIONS:

Rectangular LEDs are supplied on 8020 Series pushbutton switches with J85 and J95 options. These LEDs are factory installed and are not replaceable. The following specifications apply:

			TYP.	TYP.	MAX RATINGS AT 25°C AMBIENT TEMPERATURE		
OPTION CODE	COLOR	TYP. INTENSITY	FORWARD	FORWARD	FORWARD VOLTAGE	CONTINUOUS FORWARD CURRENT	POWER DISSIPATION
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
5	Yellow	4.0 mcd		20 mA		50 mA	125 mW

**Process Information:** Soldering to LED leads must be completed within 5 seconds at 500°F ( $260^{\circ}$ 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.



A-45



.030-

(0,76)

.340

Suggested LED for J82 & J84 options.

Dimensions for reference only

(8,64)

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

.025 SQ.

TYP. (0,63)

Projection

750

(19,05)

# **Mouser Electronics**

Authorized Distributor

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

#### **C&K Switches:**

 8225J83ZBE22
 8225J83ZBE32
 8425SHCBE
 8121J81ZGE32
 8125J81ZBE12
 8121J81ZGE12
 8221SYZGE

 8121SYZGE
 8125SDWBE
 8225SDWBE
 8125J85ZBE26
 UB11SH9V6GE
 8325SHCBE
 8121J81CGE22

 8125SD3V3BE
 8225J82ZBE22
 8125SHCBE
 8125SD9ABE
 8125SD9ABE
 8125SD9AV2BE
 8125J82ZBE22

 8225J81ZBE22
 8121J83CGE22
 U811SHZGE
 8121SD9V3GE
 8121SD9R2GE
 8121SD9AGE
 8125J85ZBE22

 8225J81ZBE22
 8121SHZGE
 8121SD9AV2GE
 8121SD9R2GE
 8121SD9AGE
 8125J85ZBE22

 8121SDAGE
 8421SHZGE
 8221SHZGE
 8121SD9AV2GE
 8121SD9R2GE
 8121SD9AGE
 8221MDZGE

 8121SDAGE
 8421SHZGE
 8121SD9AV2GE
 8121SD9AGE
 8125J84ZBE22
 8121SD9AGE
 8221MDZGE

 8121SDAGE
 8221J81ZGE22
 8121J81ZGE22
 8121SD9AGE
 8125J84ZBE22
 8121SD9AGE
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