#### 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



#### Typical Applications

- Instrumentation
- Computer peripherals
- Telecommunications equipment



#### **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 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: 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.

#### **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.

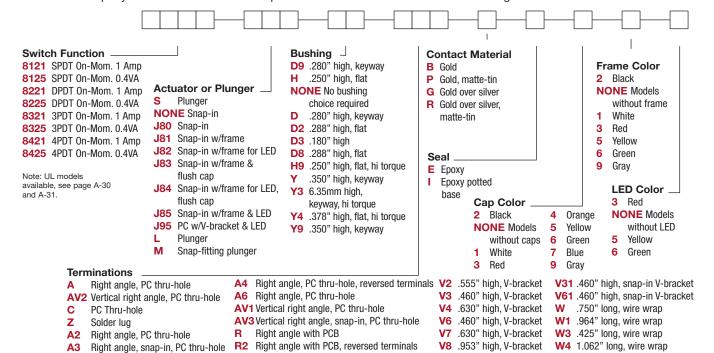
TERMINAL SEAL: Epoxy. Refer to soldering and cleaning Technical Data Chapter.

1.150" high, V-bracket

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.

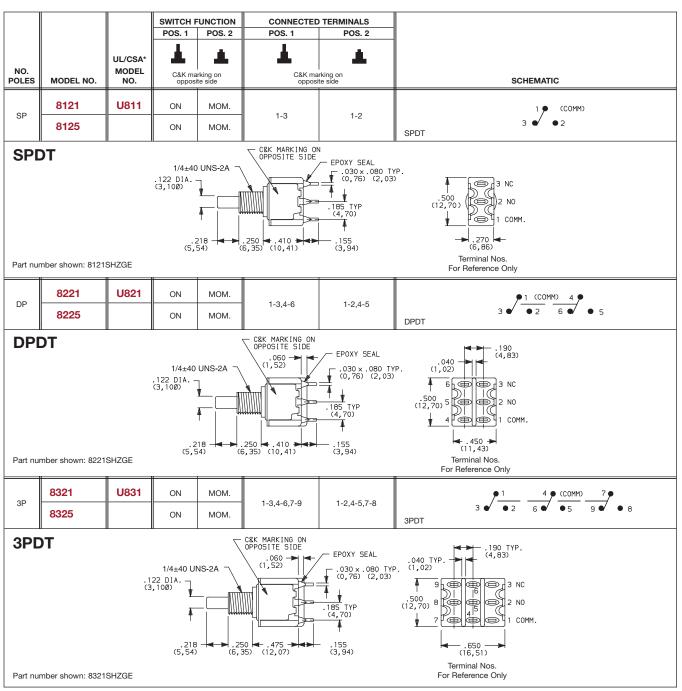




Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

Z3 Quick connect

#### SWITCH FUNCTION TO THE PROPERTY OF THE PROPERT



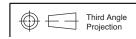
MOM. = Momentary

\*U811 thru U841 model numbers c substitute when ordered with G or R contact material.

with all options (except R, R2 terminations)

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





#### -----**SWITCH FUNCTION**

			SWITCH F	UNCTION	CONNECTED TERMINALS		
			POS. 1	POS. 2	POS. 1	POS. 2	
NO.		UL/CSA* MODEL	L C&K ma	arking on	L C&K ms	urking on	
POLES	MODEL NO.	NO.	oppos	ite side	oppos	ite side	SCHEMATIC
4P	8421	U841	ON	мом.	1-3,4-6,7-9,10-12	1-2,4-5,7-8,10-11	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
41	8425		ON	мом.	1-3,4-6,7-9,10-12	1-2,4-3,7-6,10-11	3 <b>♥</b> ● 2 6 <b>♥</b> ● 5 9 <b>♥</b> ● 8 12 <b>♥</b> ● 11 4PDT
4PDT		.122 DIA (3,100)	218	C8K MARK OPPOSITE .06 (1,52	.030 (0,7) .185 TYI (4,70)	(12,03) (1 11,500 (12,70) 1	.190 TYP. (4,83) 2

MOM. = Momentary

Part number shown: 8421SHZGE

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

## **ACTUATOR—SNAP-IN FRONT MOUNT**

#### OPTION CODE CAP AND FRAME COLOR BLACK NONE No Frame Color (J80 option) 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.

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

.715 (18,16) .450 SQ. (11,43)	.295 (7, 49) PANEL THICKNE .062 TO .125 (1,57) (3,18)	(12,10)	
NOTE: No frame color choice required			

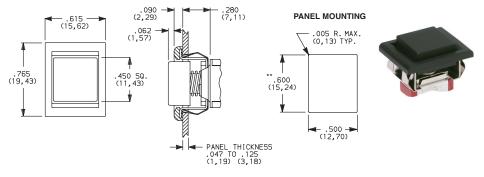
Terminal Nos

For Reference Only

NOTE: No frame color choice required.

#### J81 SNAP-IN WITH FRAME

J80 SNAP-IN



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



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



29 Aug 18

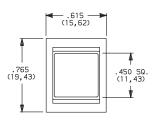
 $<sup>^{\</sup>star}$  U811 thru U841 model numbers  $_{\rm c}$   $_{\rm US}$  with all options (except R, R2 terminations) when ordered with G or R contact material.

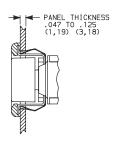
<sup>\*\*</sup> Increase this dim. to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

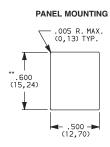
#### ACTUATOR - SNAP-IN FRONT MOUNT ------

SNAP-IN WITH FRAME AND FLUSH CAP

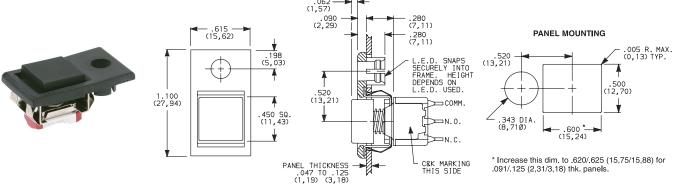








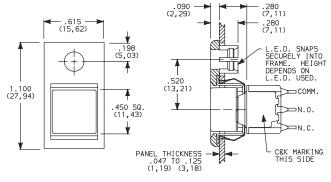
**J82** SNAP-IN WITH FRAME FOR LED

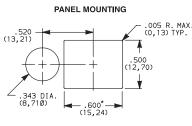


LED not included. For LED information, see page A-45.

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







LED not included For LED information, see page A-45. \* Increase this dim. to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

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.



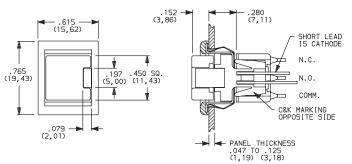


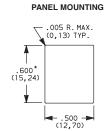
# Pushbutton

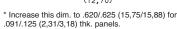
## 8020 Series **Snap-acting Momentary Pushbutton Switches**

#### **ACTUATOR—SNAP-IN FRONT MOUNT**

**J85** SNAP-IN WITH FRAME AND LED









8121J85ZGE223 **SPST** 

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

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

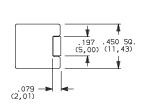
OPTION CODE	LED COLOR
3	RED
5	YELLOW
6	GREEN

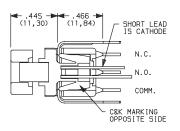
For LED information see page A-45.

## **ACTUATOR-PC MOUNT**

A-33

PC WITH V-BRACKET AND LED

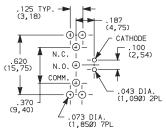




OPTION CODE	CAP AND FRAME COLOR
2	BLACK
1	WHITE
3	RED
4	ORANGE
5	YELLOW
6	GREEN
7	BLUE
9	GRAY

NOTE: Caps available separately, see page A-44. Available with V3 terminations and SPDT models only.

#### PC MOUNTING



OPTION CODE	LED COLOR
3	RED
5	YELLOW
6	GREEN

For LED information see page A-45.

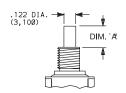


8121J95V3GE23 **SPST** 



#### PLUNGER

PLUNGER

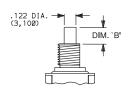


NONE

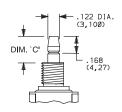
NO PLUNGER CHOICE REQUIRED (JXX ACTUATORS)

AVAILABLE BUSHINGS	DIM. 'A' FOR C, W-W4, Z & Z3 TERMINATIONS	DIM. 'A' FOR A, A2, A3, A4, A6, AV-A3, R & R2 TERMINATIONS	DIM. 'A' FOR V3-V61 TERMINATIONS
D, D9	.244 (6,20)	.228 (5,79)	.224 (5,69)
H, H9	.218 (5,54)	.202 (5,13)	.198 (5,03)
Y, Y9	.203 (5,16)	.187 (4,75)	.183 (4,65)
Y3	(5,54)	(5,13)	(5,03)
Y4	.185 (4,70)	.169 (4,29)	.165 (4,19)
D2, D8	N/A	.232 (5,89)	.228 (5,79)
D3	N/A	.162 (4,11)	.158 (4,01)

#### PLUNGER



SNAP-FITTING PLUNGER



AVAILABLE BUSHINGS	DIM. 'B' FOR C, W-W4, Z & Z3 TERMINATIONS	DIM. 'B' FOR A, A2, A3, A4, A6, AV-A3, R & R2 TERMINATIONS	DIM. 'B' FOR V3-V61 TERMINATIONS
Y, Y9	.178 (4,52)	.162 (4,11)	.158 (4,01)
Y4	.090 (2,29)	.074 (1,88)	.070 (1,78)

AVAILABLE BUSHINGS	DIM. 'C' FOR C, W-W4, Z & Z3 TERMINATIONS	DIM. 'C' FOR A, A2, A3, A4, A6, AV-A3, R & R2 TERMINATIONS	DIM. 'C' FOR V3-V61 TERMINATIONS
D, D9	.297 (7,54)	.281 (7,14)	.277 (7,04)
H, H9	.267 (6,78)	.251 (6,38)	.247 (6,27)
Y, Y9	.259 (6,58)	.243 (6,17)	.239 (6,07)
Y3	(6,78)	(6,37)	(6,27)
Y4	.259 (6,58)	.243 (6,17)	.239 (6,07)
D2, D8	N/A	.273 (6,93)	.269 (6,83)
D3	N/A	.361 (9,17)	.357 (9,07)

N/A = NOT AVAILABLE

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.

#### **BUSHING**

NONE

NO BUSHING CHOICE REQUIRED (JXX ACTUATORS)

D .280" HIGH THREADED, KEYWAY

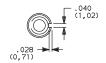
D9 .28034" HIGH UNTHREADED, **KEYWAY** 

H .250"34 HIGH THREADED, FLAT

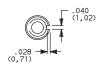
H9 .250"34 HIGH UNTHREADED, FLAT

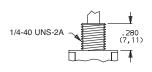
Y .350" HIGH THREADED, KEYWAY

Y9 .350" HIGH UNTHREADED, KEYWAY

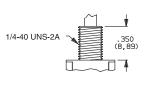








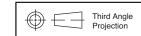
1/4-40 UNS-2A MFG. OPTION-RELIEF OR IMPERFECT THD. .020 (0,51)



D9 bushing standard with A-A6, R, R2 AV-AV3 terminations.

H bushing standard with C, W-W4, Z or Z3 terminations. H, H9 bushings not available on single pole models with A3-A6. R. R2 terminations.

Will withstand 12 in./lbs. of torque with no distortion.





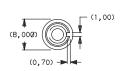
#### BUSHING ----

Y3 6.35mm THREADED, KEYWAY

Y4 .378" HIGH THREADED, FLAT

D2 .288" HIGH THREADED, FLAT

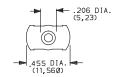
D3 .180" HIGH UNTHREADED

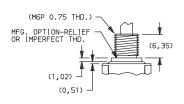


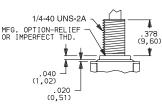


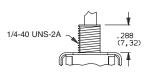


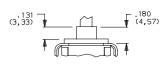
.288" HIGH UNTHREADED, FLAT











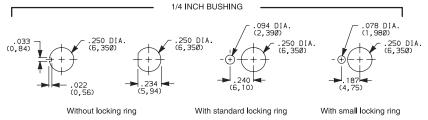
Y3 & Y4 bushings not available on single pole models with A3-A6, R, R2 terminations. Will withstand 12 in./lbs. of torque with no distortion.

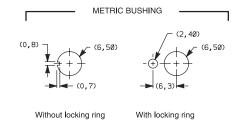
D2, D8 bushings not available with C, W-W4, Z, Z3 terminations.

D3 bushing available with A, A2, A3, AV, AV2, AV3 and V2-V61 terminations only.

NOTE: No bushing option choice required when JXX actuator option is selected. When selecting bushing option, plunger selection must also be made, see previous page. Plunger lengths vary with bushing and termination options selected.

#### PANEL MOUNTING

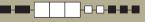




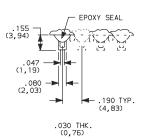
NOTE: Two mounting nuts, locking ring and lockwasher supplied standard with threaded bushings.

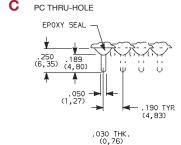
Optional mounting nut and locking ring styles available, see section "Technical Data and Additional Hardware".

## TERMINATIONS -



Z SOLDER LUG





#### SPDT thru 4PDT

Not available with J95 actuator, P or R contact material.

SPDT thru 4PDT

Not available with J95 actuator option.

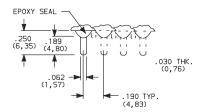
.190 TYP.

(4,83)

PC MOUNTING

A) -

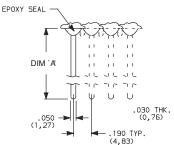
**Z3** QUICK CONNECT



SPDT thru 4PDT

Not available with J95 actuator, P or R contact material. Mating quick connector available, order part number 530100000, page A-44.

#### W W1, W3, W4 WIRE WRAP



OPTION CODE	DIM 'A'
w	.750 (19,05)
W1	.964 (24,49)
W3	.425 (10,80)
W4	1.062 (26,97)

190 TYP. Not available with J95 actuator option.



SPDT thru 4PDT



riojection



# 8020 Series

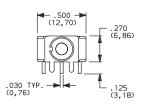
## **Snap-acting Momentary Pushbutton Switches**

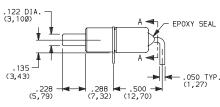
#### **TERMINATIONS**

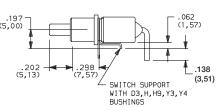
RIGHT ANGLE, PC THRU-HOLE

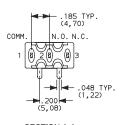


8121SD9AGE **SPDT** 









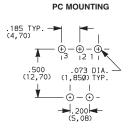
SECTION A-A Terminal Nos. For Reference Only.

Part Number 8121SH9AGE

RIGHT ANGLE, SNAP-IN, PC THRU-HOLE





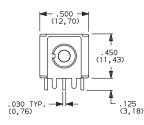


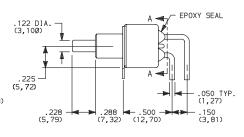
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

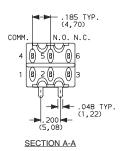
RIGHT ANGLE, PC THRU-HOLE



8221SD9AGE DPDT



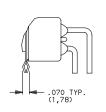


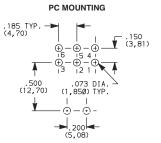


RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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



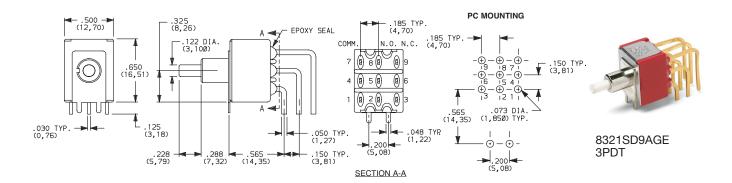






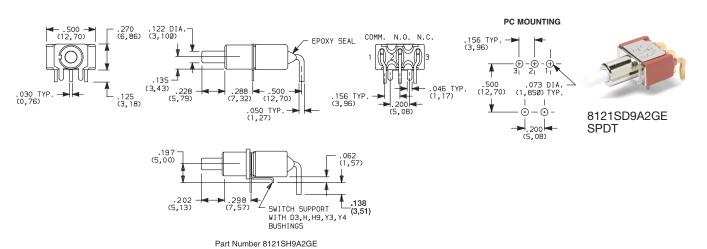
#### **TERMINATIONS**

RIGHT ANGLE, PC THRU-HOLE



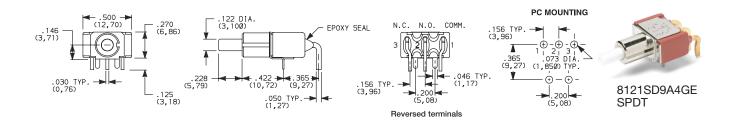
Not available with JXX actuators and I seal option. Terminal bend radii and lead-in manufacturing option

RIGHT ANGLE, PC THRU-HOLE



RIGHT ANGLE, PC THRU-HOLE, REVERSED TERMINALS

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



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

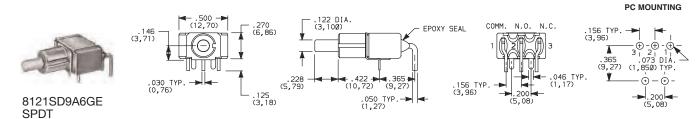
The A4 and R2 termination options are functionally identical and fit the same PC mounting pattern. The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R2, the A4 option is available with UL/CSA.





#### TERMINATIONS ----

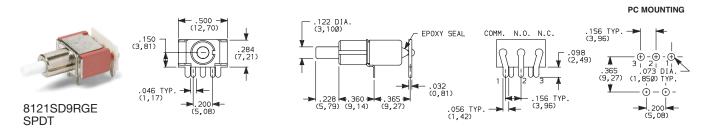
A6 RIGHT ANGLE, PC THRU-HOLE



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

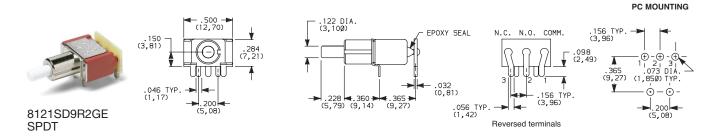
The A6 and R termination options are functionally identical and fit the same PC mounting pattern, The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R, the A6 option is available with UL/CSA.

RIGHT ANGLE WITH PCB

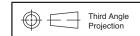


Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R termination not UL/CSA approved.

R2 RIGHT ANGLE WITH PCB, REVERSED TERMINALS



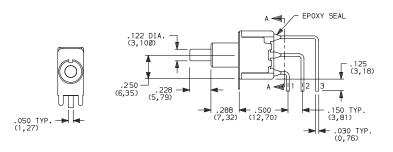
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R2 termination not UL/CSA approved.

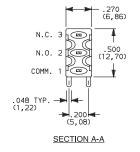




#### ---**TERMINATIONS**

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

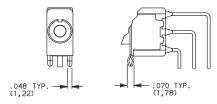




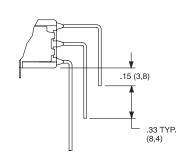


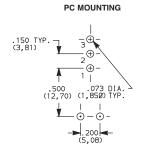
8121SD9AV2GE **SPDT** 

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



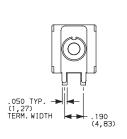
AV<sub>1</sub> VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH

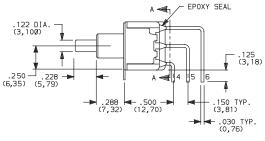


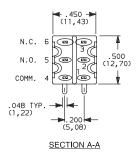


Not available with JXX actuators and I seal Terminal bend radii and lead-in manufacturing option.

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



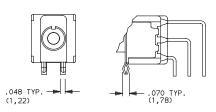






8221SD9AV2GE **DPDT** 

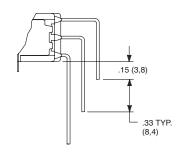
AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



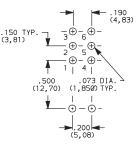
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

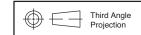
## AV<sub>1</sub>

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



#### PC MOUNTING

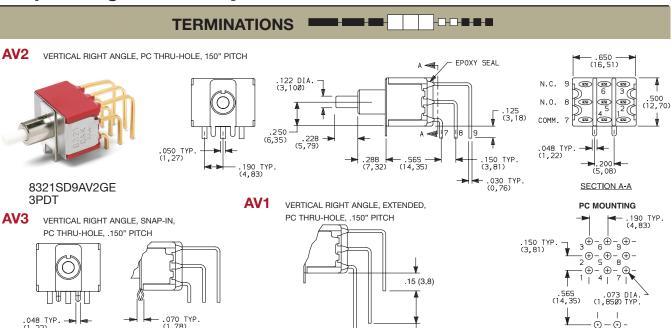




Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

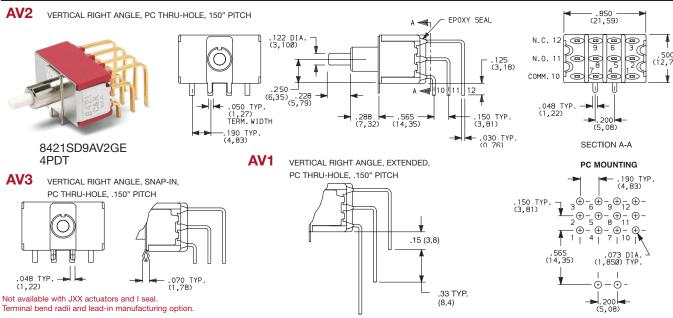


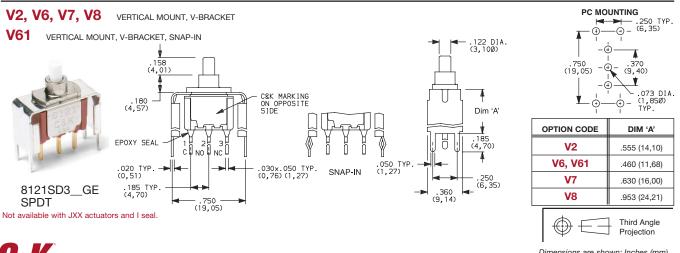
29 Aug 18



.33 TYP.

(8,4)







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

Not available with JXX actuators and I seal

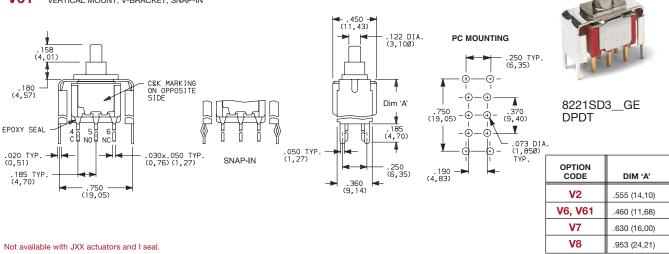
Terminal bend radii and lead-in manufacturing option.

. 200 (5,08)

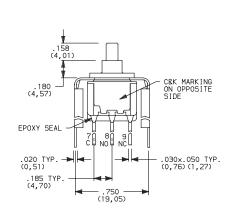
#### **TERMINATIONS**

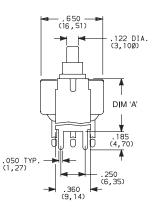
V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET

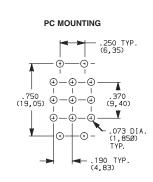
VERTICAL MOUNT, V-BRACKET, SNAP-IN



VERTICAL MOUNT, V-BRACKET







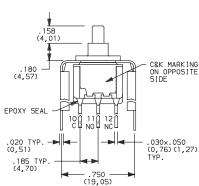


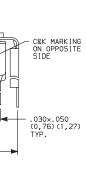
8321SD3\_\_GE 3PDT

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

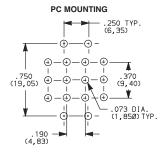
Not available with JXX actuators and I seal

VERTICAL MOUNT, V-BRACKET





- .850 -(21,59) .122 DIA. (3,100) DIM 'A' .185 (4,70) .050 TYP. (1,27) .250 (6,35) .360 (9,14)





8421SD3\_\_GE 4PDT

OPTION CODE	DIM 'A'	
V2	.555 (14,10)	
V7	.630 (16,00)	
<b>V</b> 8	.953 (24,21)	

ı 'A'	
4,10)	
6,00)	
4,21)	
	•

Third Angle Projection

Not available with JXX actuators and I seal.

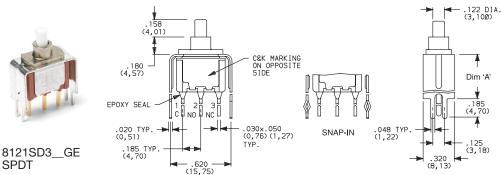


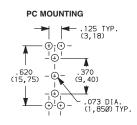
29 Aug 18

#### **TERMINATIONS**

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



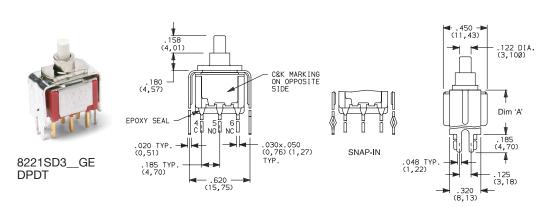


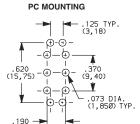
OPTION CODE	DIM 'A'	
V3, V31	.460 (11,68)	
V4	.630 (16,00)	
V9	1.150 (29,21)	

Not available with J8X actuators and I seal.

**V3**, **V4**, **V9** VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN

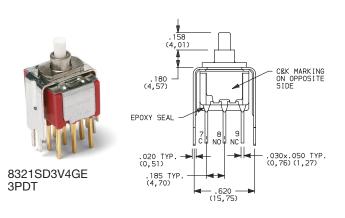




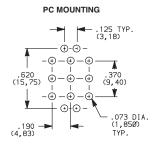
OPTION CODE	DIM 'A'	
V3, V31	.460 (11,68)	
<b>V</b> 4	.630 (16,00)	
<b>V</b> 9	1.150 (29,21)	

Not available with J8X actuators and I seal

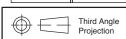
#### V4, V9 VERTICAL MOUNT, V-BRACKET



.122 DIA. .630 (16,00) .185 (4,70) .048 TYP. .125 (3,18) .320 (8,13)



DIM 'A'	
.630 (16,00)	
1.150 (29,21)	

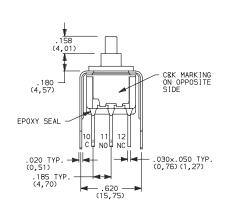


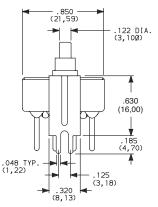
Not available with JXX actuators and I seal.

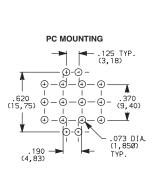


#### ----TERMINATIONS ---

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









8421SD3V4GE 4PDT

OPTION CODE	DIM 'A'	
<b>V</b> 4	.630 (16,00)	
V9	1.150 (29,21)	

Not available with JXX actuators and I seal

#### CONTACT MATERIAL

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				@ 20 V AC OR DC MAX.		
G	GOLD OVER SILVER 2,3	GOLD <sup>3</sup>	LOW LEVEL/DRY	8X21, U8X1 MODELS ONLY: 0.4 VA MAX		
R	MATTE-TIN 4	CIRCUIT OR POWER	@ 20 V AC OR DC MAX. OR 1 AMP @ 120 V AC OR 28 V DC.			

<sup>\*</sup> 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 National 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.

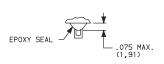
G or R contact material must be ordered with 8X21, U8X1 models.

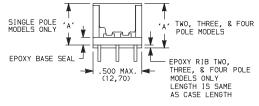
P or R contact material not available with Z, Z3 terminations.

#### **SEAL**

EPOXY SEAL

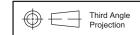
EPOXY POTTED BASE





NO. POLES	DIM 'A'
SP	.410 (10,41)
DP	.440 (11,18)
3P	.505 (12,83)
4P	.505 (12,83)

NOTE: Available with C. W-W4 7 73 terminations only



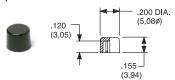


# 8020 Series

## **Snap-acting Momentary Pushbutton Switches**

#### **AVAILABLE HARDWARE**





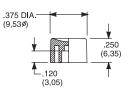
PART NO.

708901000 WHITE 708902000 BLACK 708903000 RFD 708904000 ORANGE 708905000 YELLOW 708906000 **GREEN** 708907000 BI UF

GRAY

708909000 Material: Nvlon Finish: Gloss

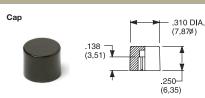
Сар



PART NO.

752701000 WHITE 752702000 BLACK 752703000 RFD 752704000 ORANGE 752705000 YELLOW 752706000 GREEN 752707000 BLUE 752709000 GRAY

Material: Nylon Finish: Gloss

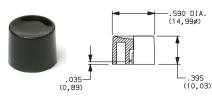


PART NO.

801801000 WHITE 801802000 BLACK 801803000 RFD 801804000 ORANGE 801805000 YELLOW 801806000 GREEN 801807000 BI UF 801809000 GRAY

Material: Nylon Finish: Gloss

#### Cap. Snap-fitting plunger

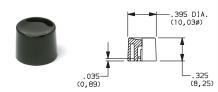


PART NO.

452D01000 WHITE 452D02000 452D03000 452D04000 ORANGE 452D05000 YELLOW 452D06000 GREEN 452D07000 BLUE 452D09000 GRAY

Material: Nylon

#### Cap. Snap-fitting plunger

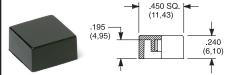


PART NO.

894101000 WHITE 894102000 894103000 894104000 ORANGE 894105000 YELLOW 894106000 894107000 BLUE 894109000 GRAY

Material: Nylon

#### Cap. J80, J81, J82, J83 & J84 options only



PART NO.

WHITE BLACK RED ORANGE YELLOW **GREEN** 

BLUE 484609000 GRAY Material: Nylon

PART NO. 798201000

WHITE 798202263 BLACK 798203000 RED 798204000 ORANGE 798205000 YELLOW 798206000 **GREEN** 798207000 BLUE 798209000 GRAY

Material: Nylon



PART NO.

615602263 BLACK

Material: Nylon Finish: Matte

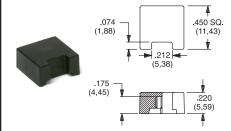


PART NO.

613302263 BLACK

Material: Nylon Finish: Matte

#### Cap, J85 & J95 options only



PART NO.

Material: Nylon

Fits Z3 Termination

#### PART NO. 530100000

Available in loose pieces.

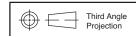


NOTE: Additional nuts, locking rings and lockwashers available separately, see section

"Technical Data and Additional Hardware".

A-44

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





#### **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.

.125" (3,18) PANEL THK

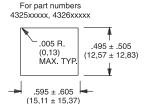
PART NO.

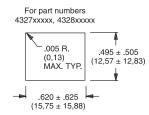
PART NO.

432702263

432802263 BLACK

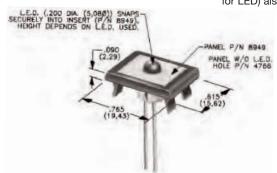
#### PANEL MOUNTING





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

PART NO. 894902000 PART NO.

476602000 BLACK

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

#### **LED INFORMATION**

SWITCHES WITH LED SUPPLIED: J85, J95 OPTIONS:

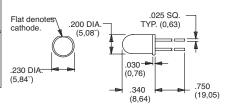
Rectangular LEDs are supplied on 8020 Series pushbutton switches with J85 and J95 options. These LEDs are factory installed and are not replaceable. The following specifications apply:

			TYP.	TYP.	MAX RAT	NGS AT 25°C AMBIENT T	EMPERATURE
OPTION CODE	COLOR	TYP. INTENSITY	FORWARD VOLTAGE	FORWARD CURRENT	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°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





#### **Mouser Electronics**

**Authorized Distributor** 

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

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

8225J83ZBE22 8125SDWBE 8225SDWBE U811SH9V6GE 8325SHCBE 80180-2000 8225J82ZBE22
8125J85W1BE223 8125J83CBE32 8125J84ZBE22 8125SHZ3BE 752705000 752704000 752709000 801806000
8121SHV3RE 8125J80CBE3 8121MYCGE 8121SD8AGE 8121SD9ZGE 8121SY9ALE 8221SYZGI 8421SYAV2GE
8121J81CGE32 8121SD9CGE 8121SDA2GE 8121SDA4GE 8121SDV2GE 8121SY4CGE 8121SYAGE
8121SYCGE 8121SYV4GE 8125J80ZBE2 8125J83CBE21 8125SY4CBE 8221SD9AV2GE 8221SD9V8GE
8221SDAV2GE 8221SY4ZGE 8225J81CBE22 8225LY4ZBE 8321MHZGE 8321SDCGE 8321SHCGE
8425SD9CBE U821SD9ALE U811SDZGE 8121SD9W3GE 8121SD9V4GE 8125J85ZBE225 8125J85WBE223
8121J85CGE223 8125SYCBI 8321SHAGE 801809000 U811SD9AV2GE 8221SD3V7GE 8125SY3ZBE
8125SD3A2BE 8221SD8AV2GE U821SDAV2GE 8221J81ZGE62 8121LYCGE U811J81ZGE62 8225SHW3BE
8121J85CGE225 8125J81ZBE11 8225J83ZBE72 8321SHWGE 8125SDV4BE 8125J85WBE226 8221SHW3GE
8121SY4AV2GE 8121J95V3RE66 8125SDV3BE 8125SY9ABE 8121SHV31GE 8225SHABE 8225SD9V4PE
8225SYZBE 8121J95V3RE33 8121MD9V3GE 8121SD3V8GE 8121J80ZGE6 8225J80ZBE3 8125MY9V3BE
459706000 459705000 459707000 459709000