#### 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

#### **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 m $\Omega$  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.

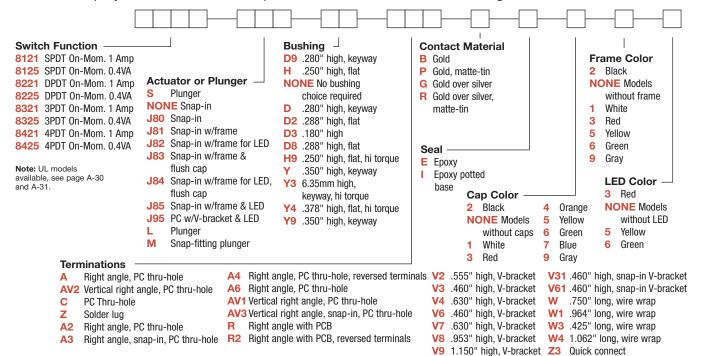
COMMON CONTACT & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

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

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

### **Build-A-Switch**

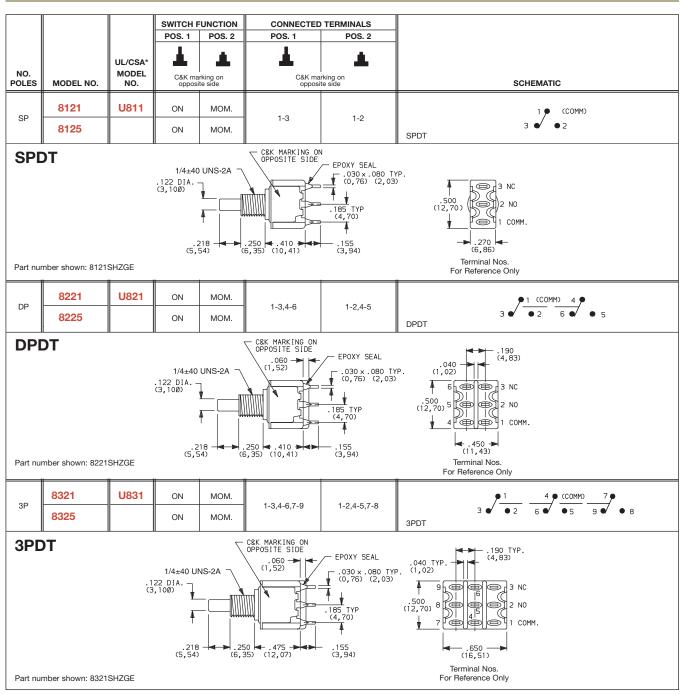
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-30 thru A-45. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.







### SWITCH FUNCTION -----



MOM. = Momentary

\*U811 thru U841 model numbers calls 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.





#### **SWITCH FUNCTION**

			SWITCH F	UNCTION	CONNECTED TERMINALS		
			POS. 1	POS. 2	POS. 1	POS. 2	
NO. POLES	MODEL NO.	UL/CSA* MODEL NO.	C&K ma	urking on ite side	C&K ma	rking on te 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$
	8425		ON	мом.			3 <b>•</b> ∕ • 2 6 <b>•</b> ∕ • 5 9 <b>•</b> ∕ • 8 12 <b>•</b> ∕ • 11 4PDT
4PDT  C28K MARKING ON OPPOSITE SIDE OPPOSITE SIDE OSS OF ORDER OF OPPOSITE SIDE OSS OF OPPOSI							

MOM. = Momentary

Part number shown: 8421SHZGE

\* U811 thru U841 model numbers call us 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.

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



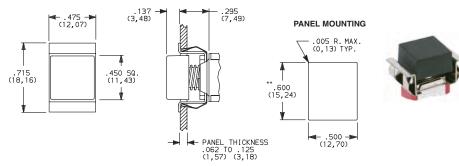
- .850 -(21,59) Terminal Nos. For Reference Only

OPTION CODE	CAP AND FRAME COLOR
2	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.

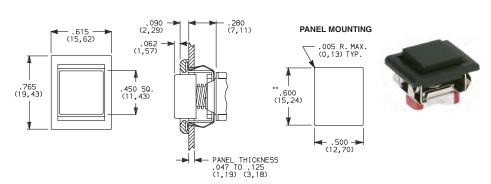




NOTE: No frame color choice required.

 $^{**}$  Increase this dim. to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

#### J81 SNAP-IN WITH FRAME



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.

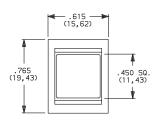


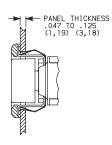


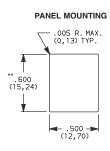
# ACTUATOR—SNAP-IN FRONT MOUNT ACTUATOR OR PILINGER CAP COLOR FRAME COLOR

J83 SNAP-IN WITH FRAME AND FLUSH CAP

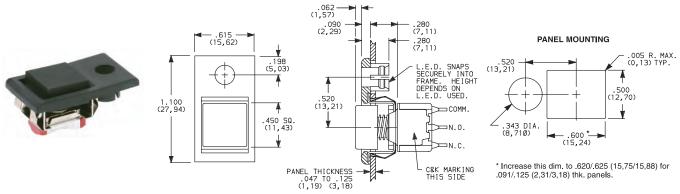








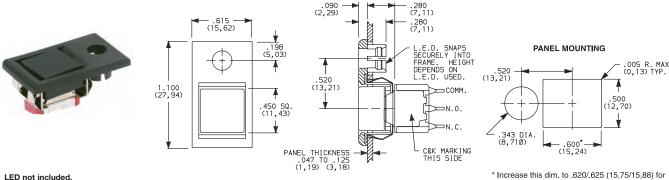
J82 SNAP-IN WITH FRAME FOR LED



### 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.

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.



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

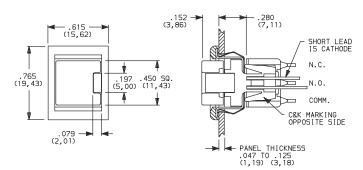
.091/.125 (2,31/3,18) thk. panels.

**ACTUATOR—SNAP-IN FRONT MOUNT** 

CAP COLOR LED COLOR

ACTUATOR OR PLUNGER FRAME COLOR

J85 SNAP-IN WITH FRAME AND LED

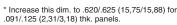


PANEL MOUNTING

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

.600\*
(15, 24)

-.500(12, 70)





8121J85ZGE223 **SPST** 

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

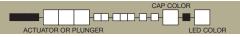
**NOTE:** Caps & frames available separately, see pages A-44 and A-45.

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

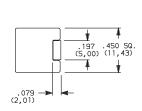
OPTION CODE	LED COLOR	
3	RED	
5	YELLOW	
6	GREEN	

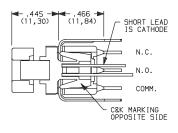
For LED information see page A-45.

# ACTUATOR-PC MOUNT



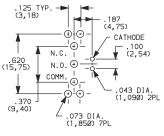
J95 PC WITH V-BRACKET AND LED





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

PC MOUNTING



OPTION CODE	LED COLOR	
3	RED	
5	YELLOW	
6	GREEN	

For LED information see page A-45.



8121J95V3GE23 **SPST** 

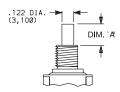
**NOTE:** Caps available separately, see page A-44. Available with V3 terminations and SPDT models only.





#### 

S PLUNGER

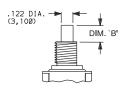


NONE N

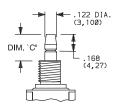
NO PLUNGER CHOICE REQUIRED (JXX ACTUATORS)

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)
Н, Н9	.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)

L PLUNGER



M 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)
Н, Н9	.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

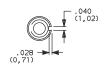
.280" HIGH UNTHREADED, KEYWAY

H .250" HIGH THREADED, FLAT

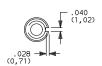
H9 .250" HIGH UNTHREADED, FLAT

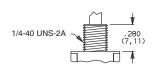
Y .350" HIGH THREADED, KEYWAY

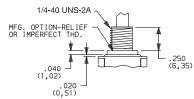
Y9 .350" HIGH UNTHREADED, KEYWAY

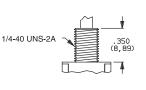








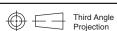




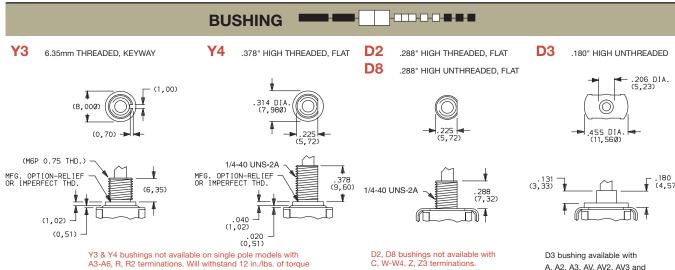
D9 bushing standard with A-A6, R, R2 AV-AV3 terminations.

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.

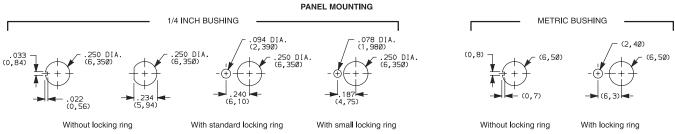
Will withstand 12 in./lbs. of torque with no distortion.

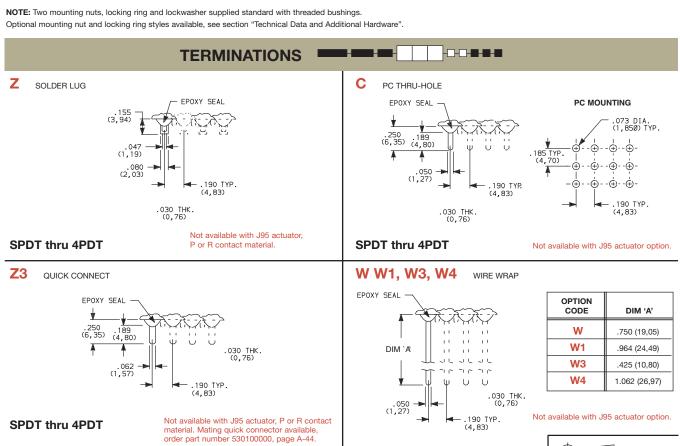






NOTE: No bushing option choice required when JXX actuator option is selected. When selecting bushing option, plunger selection must also be made, see previous page. Plunger lengths vary with bushing and termination options selected.







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

V2-V61 terminations only.

Third Anale

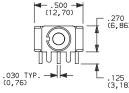
SPDT thru 4PDT

### **TERMINATIONS**

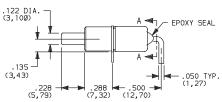
A RIGHT ANGLE, PC THRU-HOLE

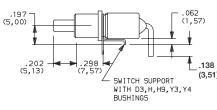


8121SD9AGE SPDT

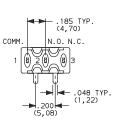








Part Number 8121SH9AGE



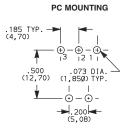
SECTION A-A

Terminal Nos. For Reference Only.

A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE







Not available with JXX actuators and I seal.

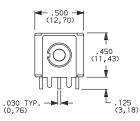
Terminal bend radii and lead-in manufacturing option.

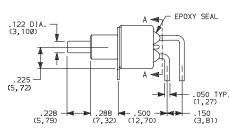
Δ

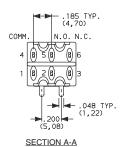
RIGHT ANGLE, PC THRU-HOLE



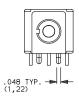
8221SD9AGE DPDT



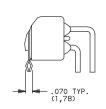


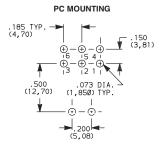


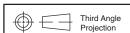
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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



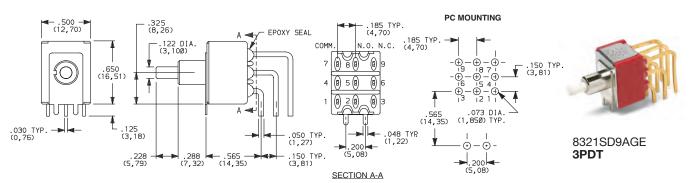






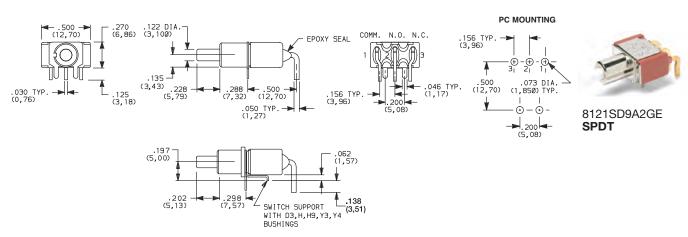
### TERMINATIONS ----

#### A RIGHT ANGLE, PC THRU-HOLE



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

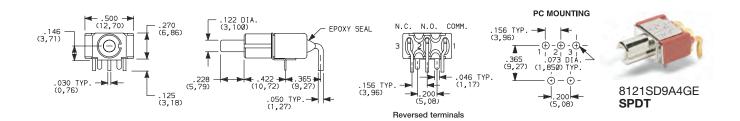
#### A2 RIGHT ANGLE, PC THRU-HOLE



Part Number 8121SH9A2GE

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.





## TERMINATIONS ----

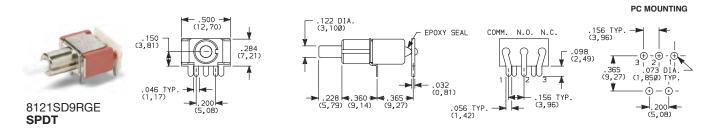
A6 RIGHT ANGLE, PC THRU-HOLE

# PC MOUNTING 122 DIA. (3, 100) (3, 71) (3, 100) (3, 71) (3, 100) (

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

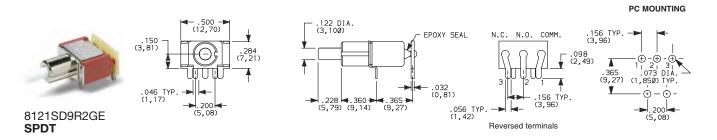
The A6 and R termination options are functionally identical and fit the same PC mounting pattern, The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R, the A6 option is available with UL/CSA.

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



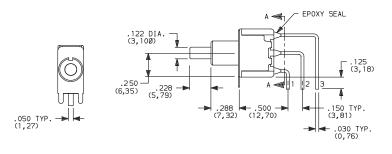
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R2 termination not UL/CSA approved.

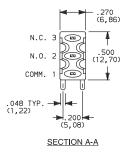




### **TERMINATIONS**

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

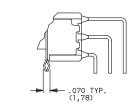




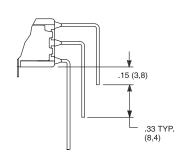


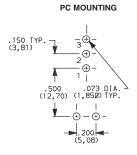
8121SD9AV2GE **SPDT** 

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



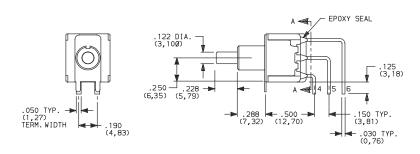
VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH

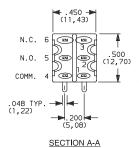




Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

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

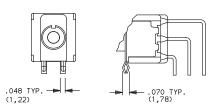






8221SD9AV2GE **DPDT** 

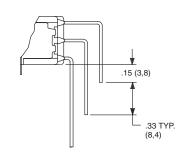
AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH

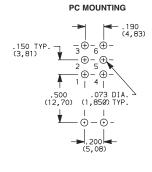


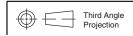
Not available with JXX actuators and I seal.

Terminal bend radii and lead-in manufacturing option.

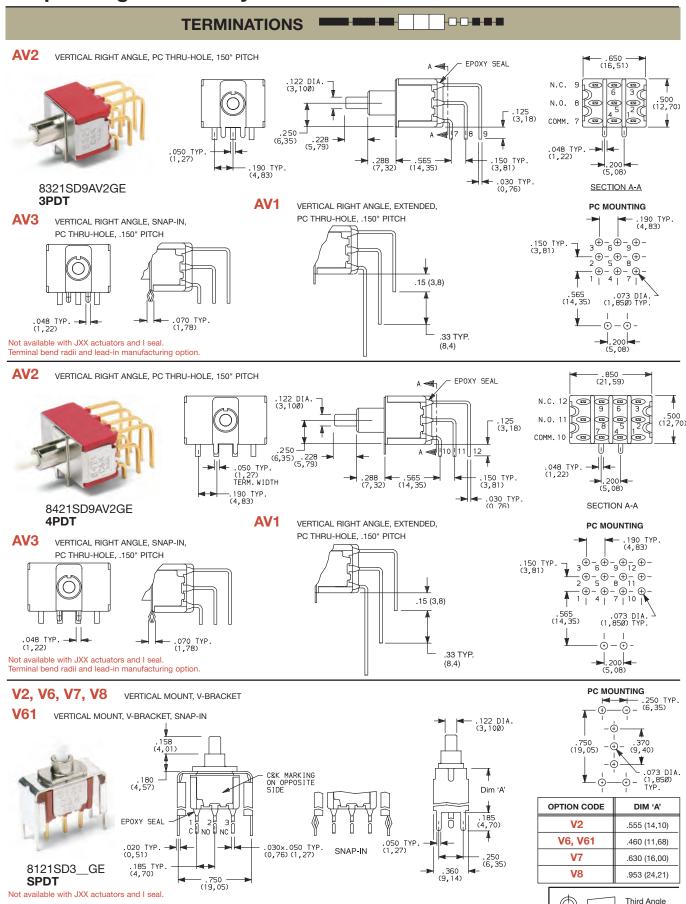
VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH









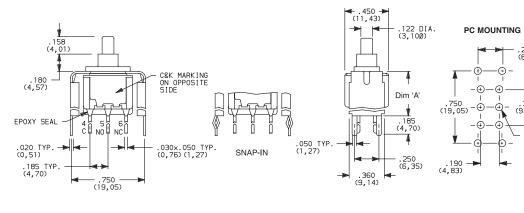




# TERMINATIONS ----

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

V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN



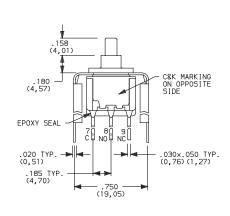


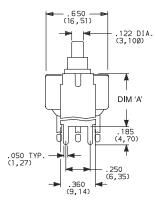
8221SD3\_GE **DPDT** 

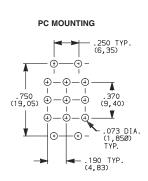
OPTION CODE	DIM 'A'
V2	.555 (14,10)
V6, V61	.460 (11,68)
<b>V7</b>	.630 (16,00)
<b>V</b> 8	.953 (24,21)

Not available with JXX actuators and I seal.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET







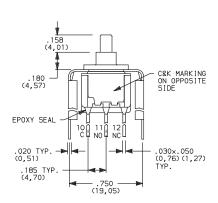


8321SD3\_\_GE **3PDT** 

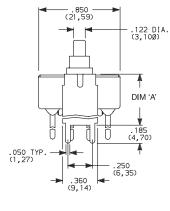
OPTION CODE	DIM 'A'
V2	.555 (14,10)
V7	.630 (16,00)
<b>V</b> 8	.953 (24,21)

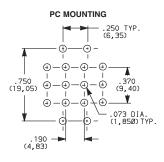
Not available with JXX actuators and I seal.

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



Not available with JXX actuators and I seal.







8421SD3\_\_GE **4PDT** 

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

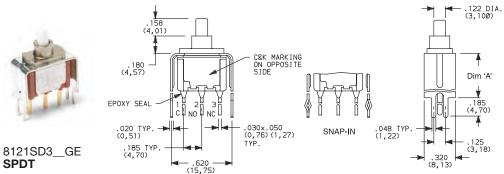
Third Angle Projection

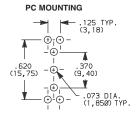


**TERMINATIONS** 

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



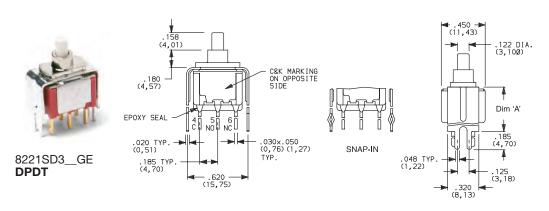


OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
<b>V</b> 4	.630 (16,00)
<b>V</b> 9	1.150 (29,21)

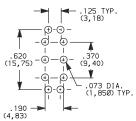
Not available with J8X actuators and I seal.

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



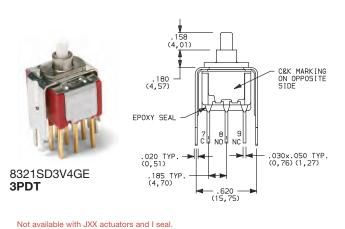
PC MOUNTING

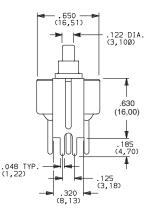


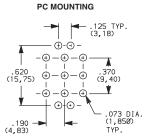
OPTION CODE	DIM 'A'	
V3, V31	.460 (11,68)	
<b>V</b> 4	.630 (16,00)	
<b>V</b> 9	1.150 (29,21)	

Not available with J8X actuators and I seal.

V4, V9 VERTICAL MOUNT, V-BRACKET







OPTION CODE	DIM 'A'	
V4	.630 (16,00)	
<b>V</b> 9	1.150 (29,21)	

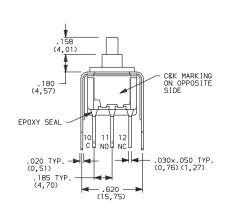
Third Anale

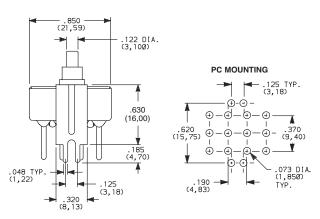


## **TERMINATIONS**

TIONS ----

V4, V9 VERTICAL MOUNT, V-BRACKET







8421SD3V4GE **4PDT** 

OPTION CODE	DIM 'A'	
V4	.630 (16,00)	
<b>V</b> 9	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	GOLD .	MATTE-TIN <sup>4</sup>		@ 20 V AC OR DC MAX.	
G	GOLD OVER SILVER <sup>2,3</sup>	GOLD <sup>3</sup>	LOW LEVEL/DRY	8X21, U8X1 MODELS ONLY: 0.4 VA MAX  @ 20 V AC OR DC MAX. OR 1 AMP	
R	GOLD OVER SILVER -19	MATTE-TIN <sup>4</sup>	CIRCUIT OR POWER	@ 120 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.
- $^{\rm 2}$  N.O. AND N.C. CONTACTS: Coin silver, with gold plate over nickel plate.
- $^{\rm 3}$  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  $_{\circ}$  **N** ( 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.

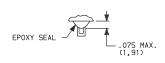
G or R contact material must be ordered with 8X21, U8X1 models.

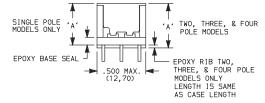
P or R contact material not available with Z, Z3 terminations.

# SEAL ----

E EPOXY SEAL

EPOXY POTTED BASE





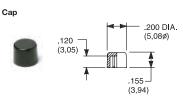
NO. POLES	DIM 'A'
SP	.410 (10,41)
DP	.440 (11,18)
3P	.505 (12,83)
4P	.505 (12,83)

NOTE: Available with C, W-W4, Z, Z3 terminations only.





#### **AVAILABLE HARDWARE**



#### PART NO.

708901000 WHITE 708902000 BLACK 708903000 RED 708904000 ORANGE 708905000 YELLOW 708906000 **GREEN** 708907000 BLUE 708909000 GRAY

Material: Nylon Finish: Gloss

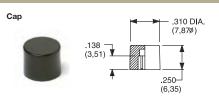
# Сар

# 375 DIA -.250 (6.35) 120

#### PART NO.

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

Material: Nylon Finish: Gloss

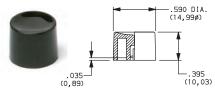


#### PART NO.

801801000 WHITE 801802000 BLACK 801803000 RED 801804000 ORANGE 801805000 YELLOW 801806000 GREEN 801807000 BLUE 801809000 GRAY

Material: Nylon Finish: Gloss

#### Cap, Snap-fitting plunger

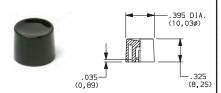


# PART NO.

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

Material: Nylon Finish: Gloss

#### Cap, Snap-fitting plunger

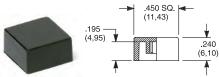


#### PART NO.

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

Material: Nylon Finish: Gloss

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



#### PART NO.

484601000 WHITE 484602000 BLACK 484603000 RFD 484604000 ORANGE 484605000 YELLOW 484606000 484607000 BLUE 484609000 GRAY

Material: Nylon Finish: Gloss

# PART NO.

798201000 WHITE 798202263 BLACK 798203000 RED 798204000 ORANGE 798205000 YELLOW 798206000 798207000 BLUE 798209000 GRAY

Material: Nylon Finish: Matte

### Frame



#### PART NO.

615602263 BLACK

Material: Nylon

### Frame

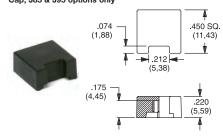


#### PART NO.

613302263 BLACK

Material: Nylon

### Cap, J85 & J95 options only



#### PART NO. PART NO. 476801000

RED ORANGE YELLOW GREEN GRAY

WHITE

Material: Nylon Material: Nylon

#### Fits Z3 Termination female connector

PART NO. 530100000

Available in loose pieces.



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

"Technical Data and Additional Hardware"

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.



(2,23) (2,23) (15,62) (15,62) .047" (1,19) PANEL THK.

.062" (1,57) PANEL THK.

.090" (2,29) PANEL THK.

PART NO. 432502263

PART NO. 432602263

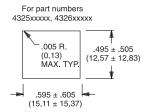
PART NO. 432702263

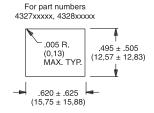
PART NO.

432802263 BLACK

.125" (3,18) PANEL THK

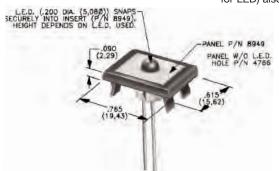
PANEL MOUNTING





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

Flat denotes 2 DIA Cathode TYP

2 DIA (0,76)

2 DIA 584

2 DIA 584

84
Suggested LED for J82 & J84 options

Dimensions for reference only

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



$\oplus = $	Third Angle Projection

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Largest Supplier of Electrical and Electronic Components

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MDPSSGLFS 810KSV30B FLT 2U EE 01A MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8646AB6X718UL

8646ABUL FSDWH 9001KXRK 9001T8BK 9533CD4+U574+U4922 1203MRA A22EM01S A595 1202A6 12037A2ULCSA 1203A2UL

ABD122N-B 1211390004 ABN111-Y ABN400-R 1211500044 1211580012 1212MRA 1232A6NF RA3CSH6A 1241.1183.7047

1241.2511 1241.3428 1223A2ULCSA 1223MRA 1232AX2119 1241.1183.8000 1241.1183.8029 1241.2506 1241.2606 12MA6

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