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.

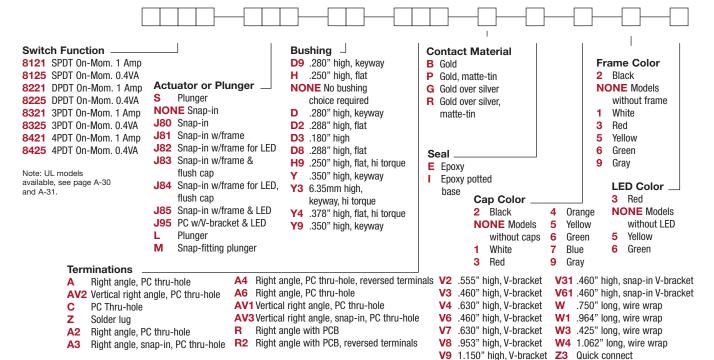
COMMON CONTACT & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

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

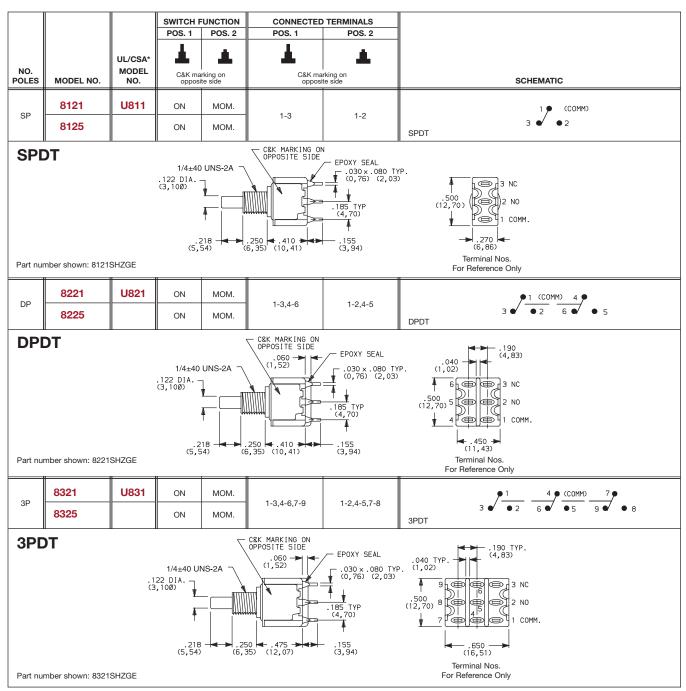
HARDWARE: Nut & Locking Ring: Brass, nickel plated; Lockwasher: Steel, nickel plated.

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.







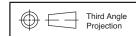
MOM. = Momentary

*U811 thru U841 model numbers c 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	H FUNCTION CONNECTED TERMINALS		TERMINALS	
			POS. 1	POS. 2	POS. 1	POS. 2	
		UL/CSA*	1	4	1	•	
NO. POLES	MODEL NO.	MODEL NO.	C&K ma oppos	arking on ite side	C&K ma oppos	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	1
41	8425		ON	мом.	1-3,4-0,7-9,10-12	1-2,4-3,7-0,10-11	3 d
4PDT		.122 DIA (3,100)	*	C8K MARK OPPOSITE .06 (1,5)	.030 (0,7)	500 (12,70) ¹	.190 TYP. (4, 83) 2 0 0 0 1 1 COMM.

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

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

9

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

.137 PANEL MOUNTING .005 R. MAX. (0,13) TYP. .450 SQ (11,43) .715 (18,16) **.600 (15,24) - .500 -(12,70) PANEL THICKNESS .062 TO .125 (1,57) (3,18)

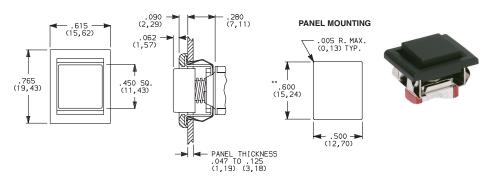
- .850 -(21,59) Terminal Nos

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.





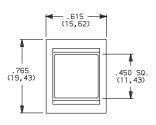
^{*} U811 thru U841 model numbers c with all options (except R, R2 terminations) when ordered with G or R contact material.

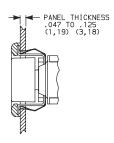
^{**} Increase this dim. to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

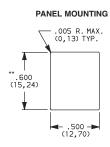
ACTUATOR - SNAP-IN FRONT MOUNT ------

SNAP-IN WITH FRAME AND FLUSH CAP

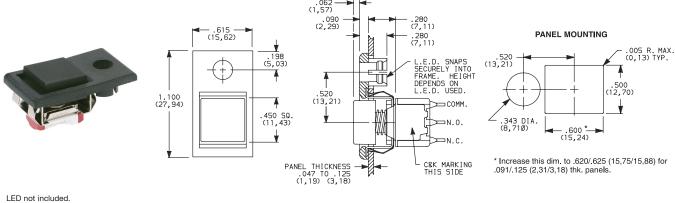








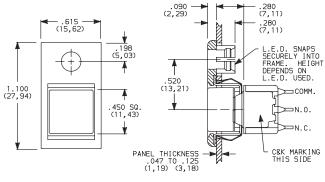
J82 SNAP-IN WITH FRAME FOR LED

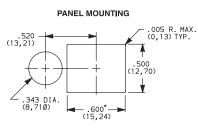


For LED information, see page A-45.

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

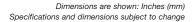
Other colors available, consult Customer Service Center. Cap and Frame Finish: matte

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.

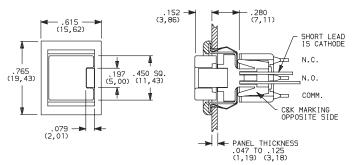


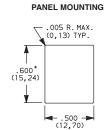


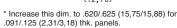


ACTUATOR—SNAP-IN FRONT MOUNT

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.

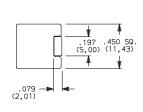
OPTION CODE	CAP AND FRAME COLOR	
2	BLACK	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
6	GREEN	
7	BLUE	
9	GRAY	

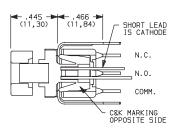
OPTION CODE	LED COLOR
3	RED
5	YELLOW
6	GREEN

For LED information see page A-45.

ACTUATOR-PC MOUNT

PC WITH V-BRACKET AND LED

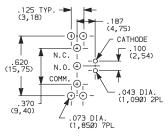




OPTION CODE	CAP AND FRAME COLOR	
2	BLACK	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
6	GREEN	
7	BLUE	
9	GRAY	

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





OPTION CODE	LED COLOR
3	RED
5	YELLOW
6	GREEN

For LED information see page A-45.



8121J95V3GE23 **SPST**





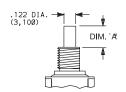


8020 Series

Snap-acting Momentary Pushbutton Switches

PLUNGER

PLUNGER

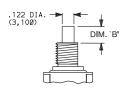


NONE

NO PLUNGER CHOICE REQUIRED (JXX ACTUATORS)

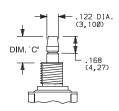
AVAILABLE BUSHINGS	DIM. 'A' FOR C, W-W4, Z & Z3 TERMINATIONS	DIM. 'A' FOR A, A2, A3, A4, A6, AV-A3, R & R2 TERMINATIONS	DIM. 'A' FOR V3-V61 TERMINATIONS
D, D9	.244 (6,20)	.228 (5,79)	.224 (5,69)
H, H9	.218 (5,54)	.202 (5,13)	.198 (5,03)
Y, Y9	.203 (5,16)	.187 (4,75)	.183 (4,65)
Y3	(5,54)	(5,13)	(5,03)
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



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

SNAP-FITTING PLUNGER



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

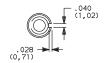
D9 .28034" HIGH UNTHREADED, **KEYWAY**

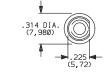
H .250"34 HIGH THREADED, FLAT

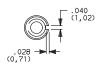
H9 .250"34 HIGH UNTHREADED, FLAT

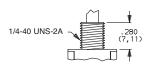
Y .350" HIGH THREADED, KEYWAY

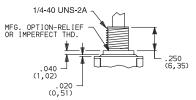
Y9 .350" HIGH UNTHREADED, KEYWAY

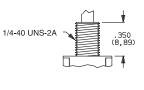








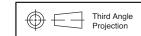




D9 bushing standard with A-A6, R, R2 AV-AV3 terminations.

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.



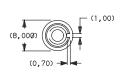


Y3 6.35mm THREADED, KEYWAY

Y4 .378" HIGH THREADED, FLAT

D2 .288" HIGH THREADED, FLAT

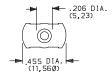
D3 .180" HIGH UNTHREADED

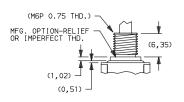


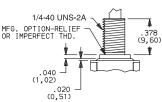


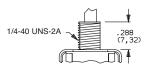


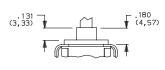
.288" HIGH UNTHREADED, FLAT











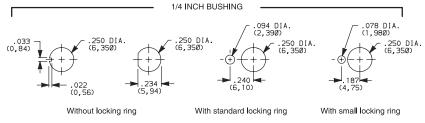
Y3 & Y4 bushings not available on single pole models with A3-A6, R, R2 terminations. Will withstand 12 in./lbs. of torque with no distortion.

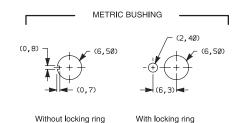
D2, D8 bushings not available with C, W-W4, Z, Z3 terminations.

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



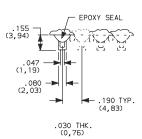


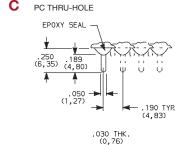
NOTE: Two mounting nuts, locking ring and lockwasher supplied standard with threaded bushings.

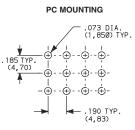
Optional mounting nut and locking ring styles available, see section "Technical Data and Additional Hardware".

TERMINATIONS

Z SOLDER LUG







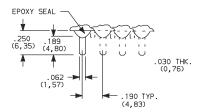
SPDT thru 4PDT

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

SPDT thru 4PDT

Not available with J95 actuator option.

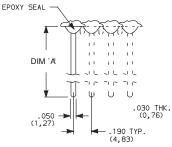
Z3 QUICK CONNECT



SPDT thru 4PDT

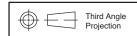
Not available with J95 actuator, P or R contact material. Mating quick connector available, order part number 530100000, page A-44.

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)

Not available with J95 actuator option. (4, 83)



SPDT thru 4PDT

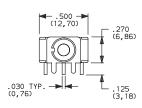


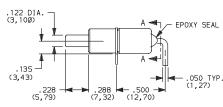
TERMINATIONS

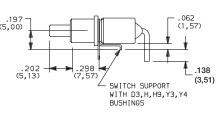
RIGHT ANGLE, PC THRU-HOLE



8121SD9AGE **SPDT**







.185 TYP. (4,70) N.O. N.C. (19) (B) 200

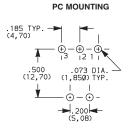
SECTION A-A Terminal Nos. For Reference Only.

Part Number 8121SH9AGE

RIGHT ANGLE, SNAP-IN, PC THRU-HOLE





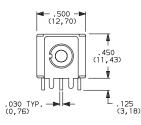


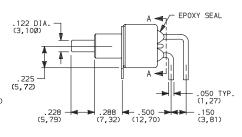
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

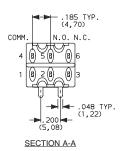
RIGHT ANGLE, PC THRU-HOLE



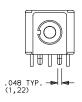
8221SD9AGE DPDT



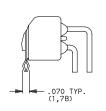


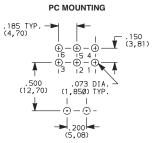


RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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



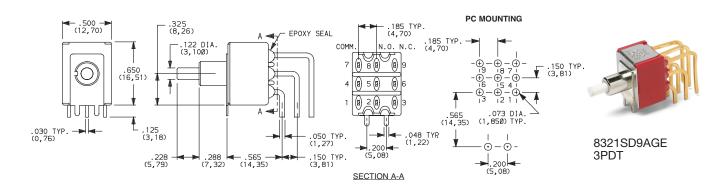






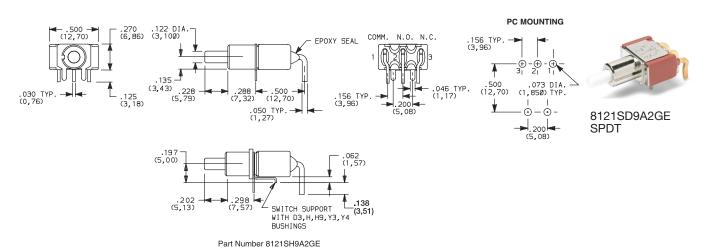
TERMINATIONS

RIGHT ANGLE, PC THRU-HOLE



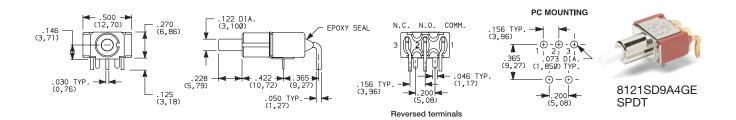
Not available with JXX actuators and I seal option. Terminal bend radii and lead-in manufacturing option

RIGHT ANGLE, PC THRU-HOLE



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

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.



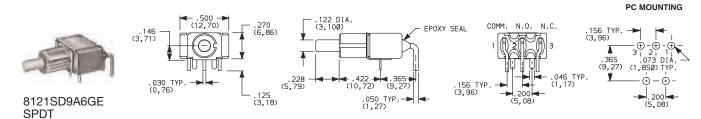
Dimensions are shown: Inches (mm)



Specifications and dimensions subject to change

TERMINATIONS ----

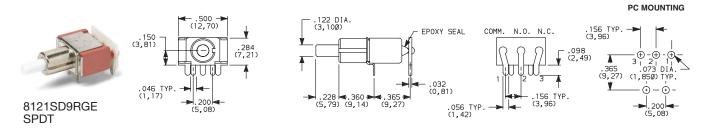
A6 RIGHT ANGLE, PC THRU-HOLE



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

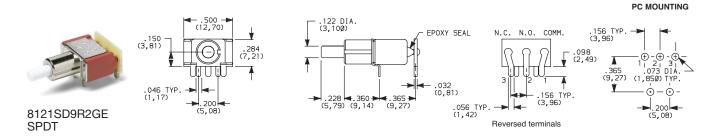
The A6 and R termination options are functionally identical and fit the same PC mounting pattern, The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R, the A6 option is available with UL/CSA.

RIGHT ANGLE WITH PCB

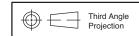


Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R termination not UL/CSA approved.

R2 RIGHT ANGLE WITH PCB, REVERSED TERMINALS



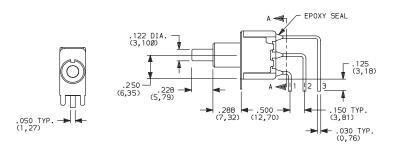
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R2 termination not UL/CSA approved.

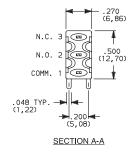




---**TERMINATIONS**

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

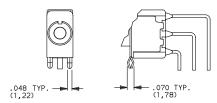




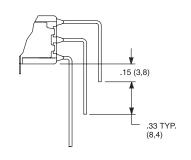


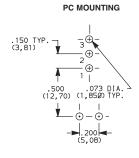
8121SD9AV2GE **SPDT**

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



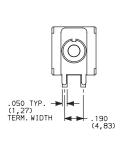
AV₁ VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH

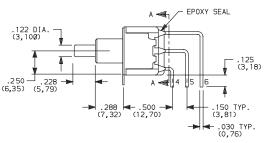


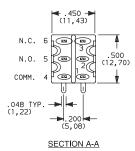


Not available with JXX actuators and I seal Terminal bend radii and lead-in manufacturing option.

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



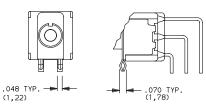






8221SD9AV2GE **DPDT**

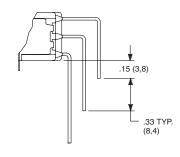
AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



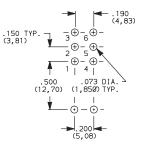
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

AV₁

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



PC MOUNTING

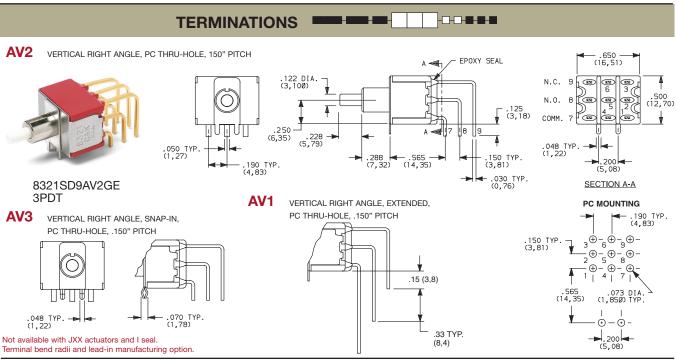


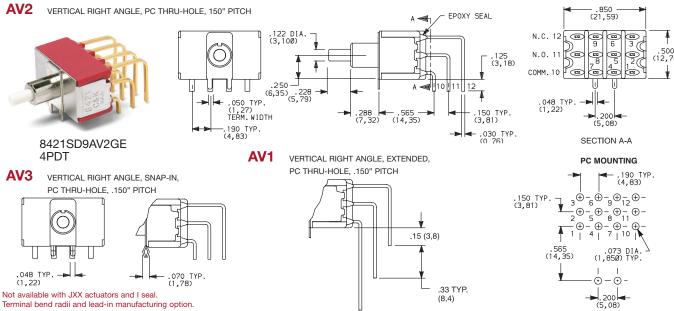


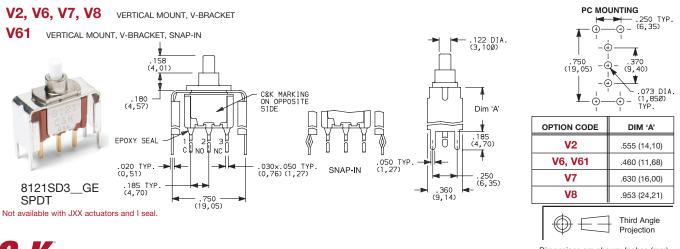
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



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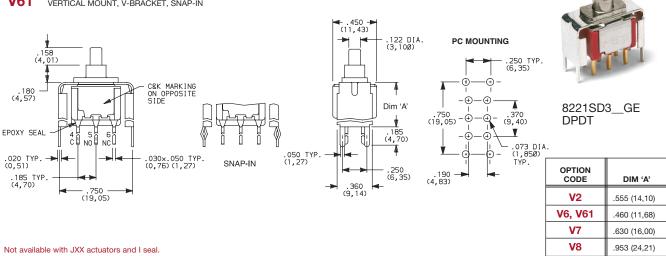




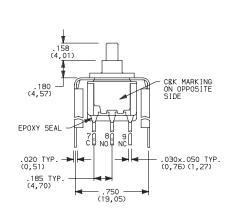
TERMINATIONS

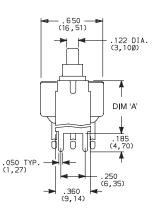
V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET

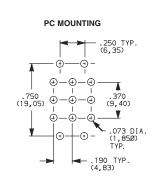
VERTICAL MOUNT, V-BRACKET, SNAP-IN



VERTICAL MOUNT, V-BRACKET







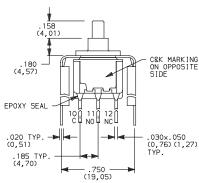


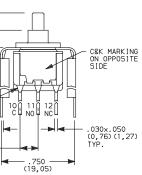
8321SD3__GE 3PDT

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

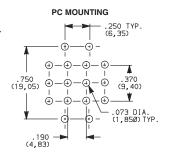
Not available with JXX actuators and I seal

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)
V 8	.953 (24,21)

(Third Angle Projection

Not available with JXX actuators and I seal.

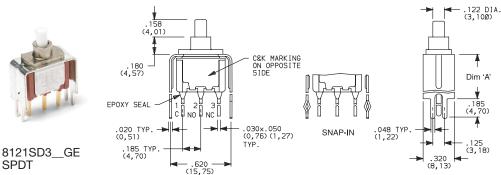


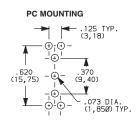
29 Aug 18

TERMINATIONS ----

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



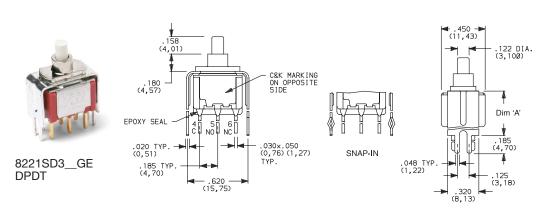


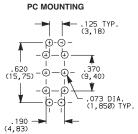
OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4	.630 (16,00)
V9	1.150 (29,21)

Not available with J8X actuators and I seal.

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN

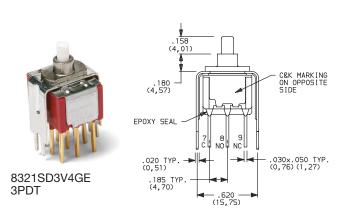


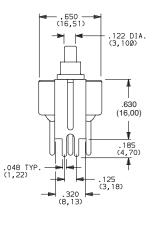


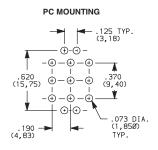
OPTION CODE	DIM 'A'		
V3, V31	.460 (11,68)		
V 4	.630 (16,00)		
V 9	1.150 (29,21)		

Not available with J8X actuators and I seal

V4, V9 VERTICAL MOUNT, V-BRACKET







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



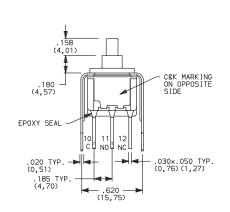
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

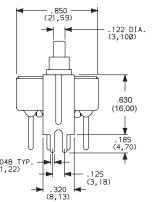


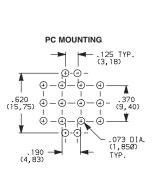
Not available with JXX actuators and I seal.

----TERMINATIONS ---

V4, V9 VERTICAL MOUNT, V-BRACKET









8421SD3V4GE 4PDT

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

Not available with JXX actuators and I seal

CONTACT MATERIAL

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

- ¹ ALL CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- ² N.O. AND N.C. CONTACTS: Coin silver, with gold plate over nickel plate.
- ³ COMMON CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- ⁴ 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.

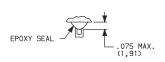
G or R contact material must be ordered with 8X21, U8X1 models.

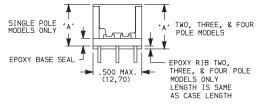
P or R contact material not available with Z, Z3 terminations.

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)

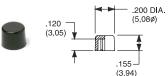
NOTE: Available with C. W-W4 7 73 terminations only





AVAILABLE HARDWARE





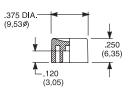
(3,94)

PART NO. 708901000

WHITE 708902000 BLACK 708903000 RFD 708904000 ORANGE 708905000 YELLOW 708906000 **GREEN** 708907000 BI UF 708909000 GRAY

Material: Nvlon Finish: Gloss

Сар

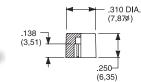


PART NO.

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

Material: Nylon Finish: Gloss





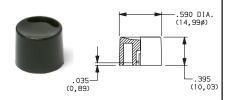
PART NO.

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

GRAY

801809000 Material: Nylon Finish: Gloss

Cap. Snap-fitting plunger

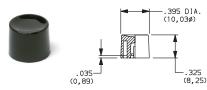


PART NO.

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

Material: Nylon

Cap. Snap-fitting plunger

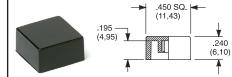


PART NO.

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.

BLACK RED ORANGE YELLOW **GREEN** BLUE GRAY

WHITE

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

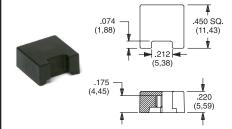


PART NO.

613302263 BLACK

Material: Nylon Finish: Matte

Cap, J85 & J95 options only



PART NO.

459709000 Material: Nylon

Fits Z3 Termination

PART NO. 530100000

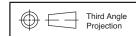
Available in loose pieces.



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

"Technical Data and Additional Hardware".

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.





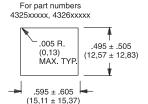
.090" (2,29) PANEL THK.

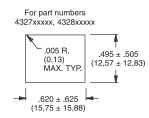
.125" (3,18) PANEL THK

PART NO. 432702263 PART NO.

432802263 BLACK

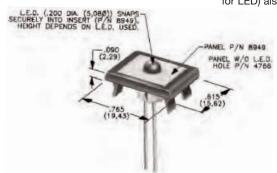
PANEL MOUNTING





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.

PART NO.

894902000

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

.025 SQ. Flat denotes 200 DIA TYP. (0,63) cathode (5.08).030 .230 DIA (0,76) (5.84)750 .340 (19,05) (8,64)

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



