Features/Benefits

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



Models Available **Specifications**

CONTACT RATING: B contact material (8X25 Models): 0.4 VA max. @ 20 V AC or DC maximum. G contact material (8X21, U8X1 Models): 1 AMP @ 120 V AC or 28 V DC or 0.4 VA max. @ 20 V AC or DC max. Note: Break-before-makecontacts. Multi-pole contacts do not make and break simultaneously. See page A-43 for additional ratings.

ELECTRICAL LIFE: 60,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 50 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.

Typical Applications

- Instrumentation
- Computer peripherals
- Telecommunications equipment



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.

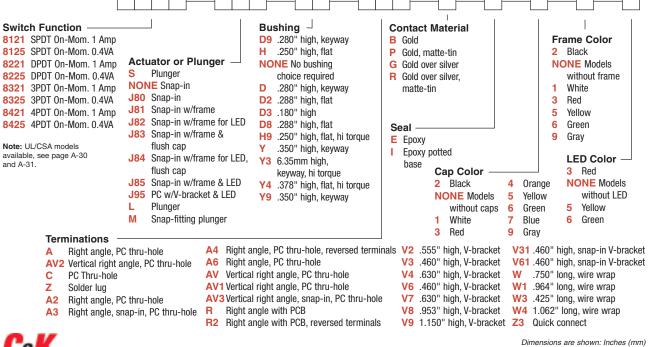
COMMON CONTACT & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

TERMINAL SEAL: Epoxy. Refer to slodering 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.

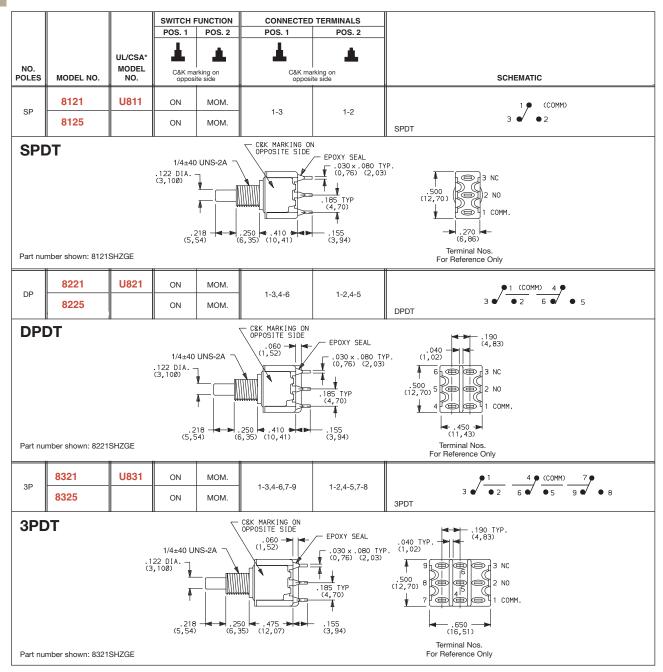




Specifications and dimensions subject to change www.ck-components.com

Pushbutton

8020 Series Snap-acting Momentary Pushbutton Switches



MOM. = Momentary

*U811 thru U841 model numbers $_{\circ}$ **N** $\textcircled{0}^{\circ}$ with all options (except R, R2 terminations) when ordered with G ,L or R contact material.

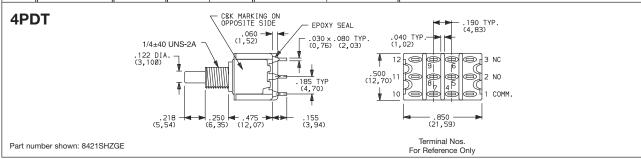
8X25 models must be ordered with B or P contact material.
8X21 and U8X1 models must be ordered with G or R contact material.







			SWITCH	UNCTION	CONNECTED	TERMINALS	
			POS. 1	POS. 2	POS. 1	POS. 2	
		UL/CSA*	1	•	A	•	
NO. POLES	MODEL NO.	MODEL NO.	C&K ma oppos	arking on ite side	C&K ma opposi	irking on ite side	SCHEMATIC
	0.404	U841	011	14014			
4P	8421	0041	ON	MOM.	1-3,4-6,7-9,10-12	1-2,4-5,7-8,10-11	1 P (COMM) 7 P 10 P



MOM. = Momentary

OPTION CODE

2 NONE

3

4

5

6

7

* U811 thru U841 model numbers ** The first of the contact material when ordered with G. Lor R contact material

CAP AND FRAME COLOR

No Frame Color (J80 option)

WHITE

ORANGE

YELLOW

GREEN

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.

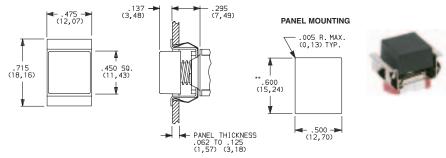
RED

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



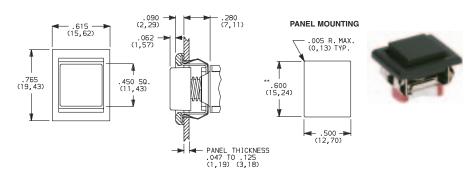
J80 SNAP-IN



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.

Third Angle Projection

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



www.ck-components.com

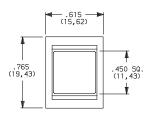
^{**} Increase this dim. to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

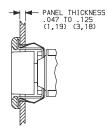
ACTUATOR—SNAP-IN FRONT MOUNT

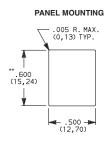
7------

J83 SNAP-IN WITH FRAME AND FLUSH CAP



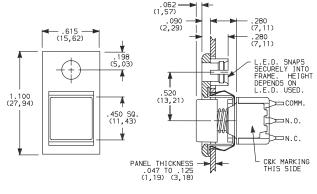


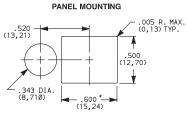




J82 SNAP-IN WITH FRAME FOR LED







* Increase this dim. to .620/.625 (15.75/15.88) for .091/.125 (2,31/3,18) thk. panels.

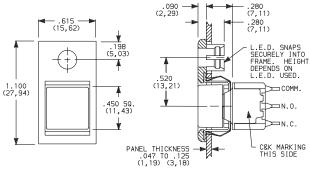
LED not included. For LED information, see page A-45.

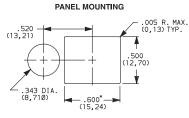
J84 SNAP-IN WITH FRAME FOR LED, FLUSH CAP



For LED information, see page A-45.

LED not included.





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

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

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.



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Dimensions are shown: Inches (mm)



Specifications and dimensions subject to change

BI UF

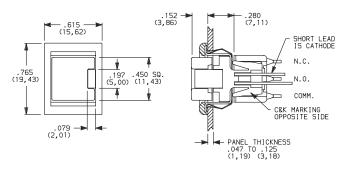
GRAY

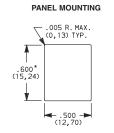
1



ACTUATOR—SNAP-IN FRONT MOUNT

J85 SNAP-IN WITH FRAME AND LED





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



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.

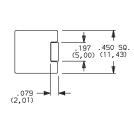
OPTION CODE	CAP AND FRAME COLOR	
2	BLACK	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
6	GREEN	
7	BLUE	
9	GRAY	

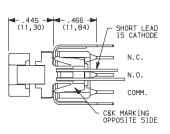
OPTION CODE	LED COLOR	
3	RED	
5	YELLOW	
6	GREEN	

For LED information see page A-43.

ACTUATOR—PC MOUNT

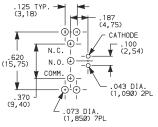
PC WITH V-BRACKET AND LED





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

PC MOUNTING



OPTION CODE	LED COLOR
3	RED
5	YELLOW
6	GREEN

For LED information see page A-45.



8121J95V3GE23 SPST

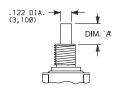
NOTE: Caps available separately, see page A-44. Available with V3 terminations and SPDT models only.



$\bigoplus \Box$	Third Angle Projection
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Snap-acting Momentary Pushbutton Switches

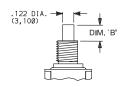
PLUNGER



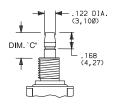
NO PLUNGER CHOICE REQUIRED (JXX ACTUATORS)

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.

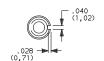
BUSHING

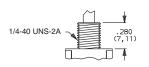
NONE

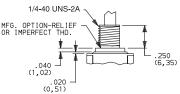
NO BUSHING CHOICE REQUIRED (JXX ACTUATORS)

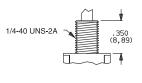
- D .280" HIGH THREADED, KEYWAY
- D9 .280" HIGH UNTHREADED, KEYWAY
- H .250" HIGH THREADED, FLAT
- H9 .250" HIGH UNTHREADED, FLAT
- Y .350" HIGH THREADED, KEYWAY
- Y9 .350" HIGH UNTHREADED, KEYWAY











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.



Third Angle Projection



8020 Series

-----**BUSHING**

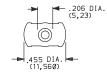
6.35mm THREADED, KEYWAY

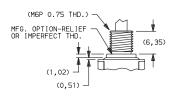
Y4 .378" HIGH THREADED, FLAT **D2** .288" HIGH THREADED, FLAT **D8** .288" HIGH UNTHREADED, FLAT .180" HIGH UNTHREADED

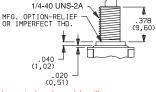
(8,000) (0.70)

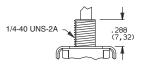


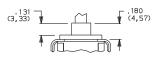












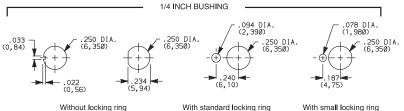
Y3 & Y4 bushings not available on single pole models with A3-A6, R, R2 terminations. Will withstand 12 in./lbs. of torque with no distortion.

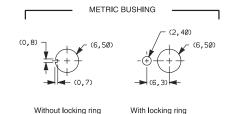
D2, D8 bushings not available with C, W-W4, Z, Z3 terminations.

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



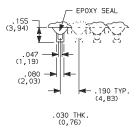


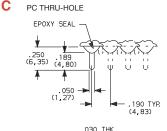
NOTE: Two mounting nuts, locking ring and lockwasher supplied standard with threaded bushings. Optional mounting nut and locking ring styles available, see section "Technical Data and Additional Hardware".

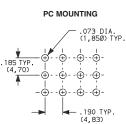
TERMINATIONS



SOLDER LUG







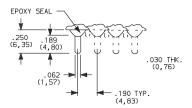
SPDT thru 4PDT

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

SPDT thru 4PDT

Not available with J95 actuator option.

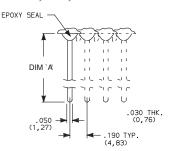
Z3 QUICK CONNECT



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.

SPDT thru 4PDT

$\boxed{ \bigoplus \boxminus}$	Third Angle Projection
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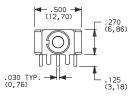
Snap-acting Momentary Pushbutton Switches

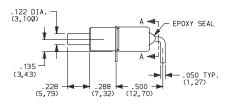
TERMINATIONS -----

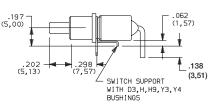
A RIGHT ANGLE, PC THRU-HOLE



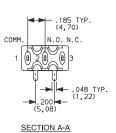
8121SD9AGE SPDT







Part Number 8121SH9AGE



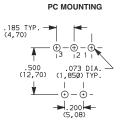
SECTION A-A

Terminal Nos. For Reference Only.

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





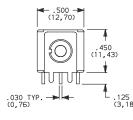


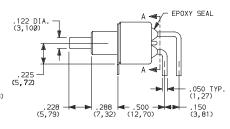
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

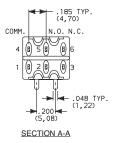
A RIGHT ANGLE, PC THRU-HOLE



8221SD9AGE DPDT



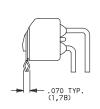


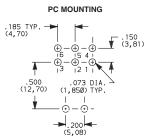


A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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





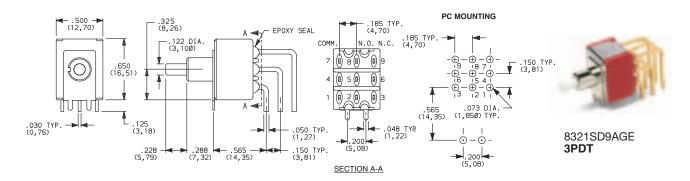




TERMINATIONS

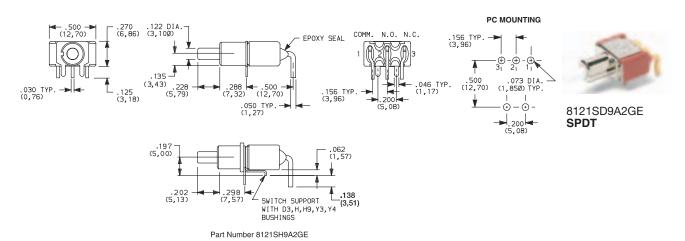
-0:0:0:0:0

RIGHT ANGLE, PC THRU-HOLE



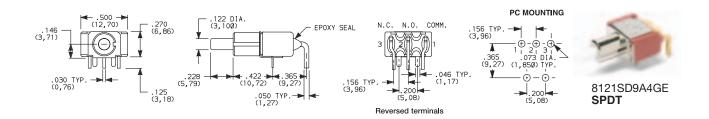
Not available with JXX actuators and I seal option. Terminal bend radii and lead-in manufacturing option.

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.

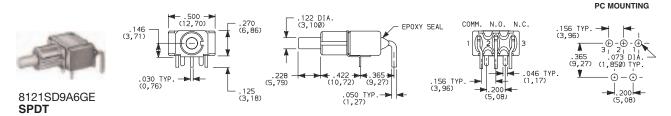




Snap-acting Momentary Pushbutton Switches

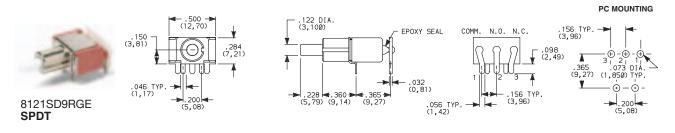
TERMINATIONS ----

A6 RIGHT ANGLE, PC THRU-HOLE



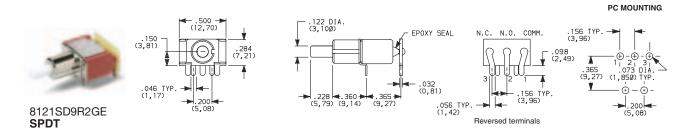
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings and I seal. Terminal bend radii and lead-in manufacturing option. The A6 and R termination options are functionally identical and fit the same PC mounting pattern, The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R, the A6 option is available with UL/CSA.

RIGHT ANGLE WITH PCB

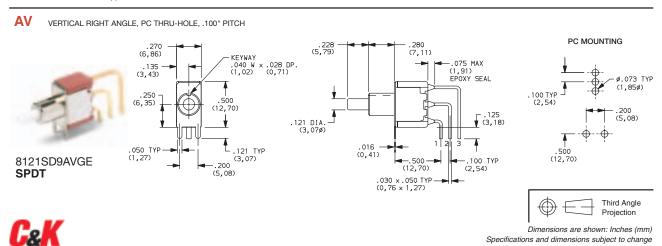


Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R termination not UL/CSA approved.

RIGHT ANGLE WITH PCB, REVERSED TERMINALS



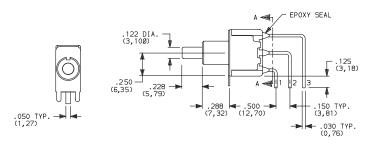
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R2 termination not UL/CSA approved.

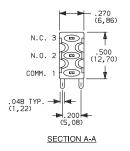


8020 Series

TERMINATIONS

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

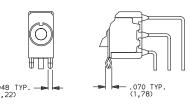




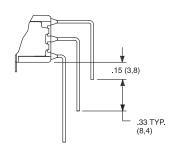


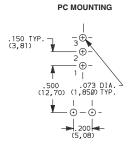
8121SD9AV2GE **SPDT**

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



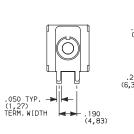
AV1 VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH

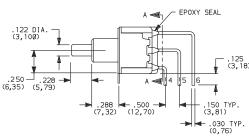


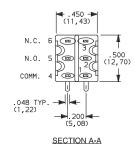


Not available with JXX actuators and I seal.

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



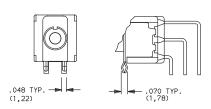






8221SD9AV2GE DPDT

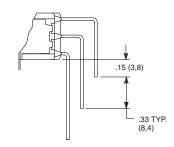
AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH

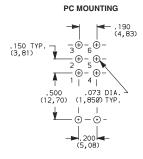


Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

AV₁

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

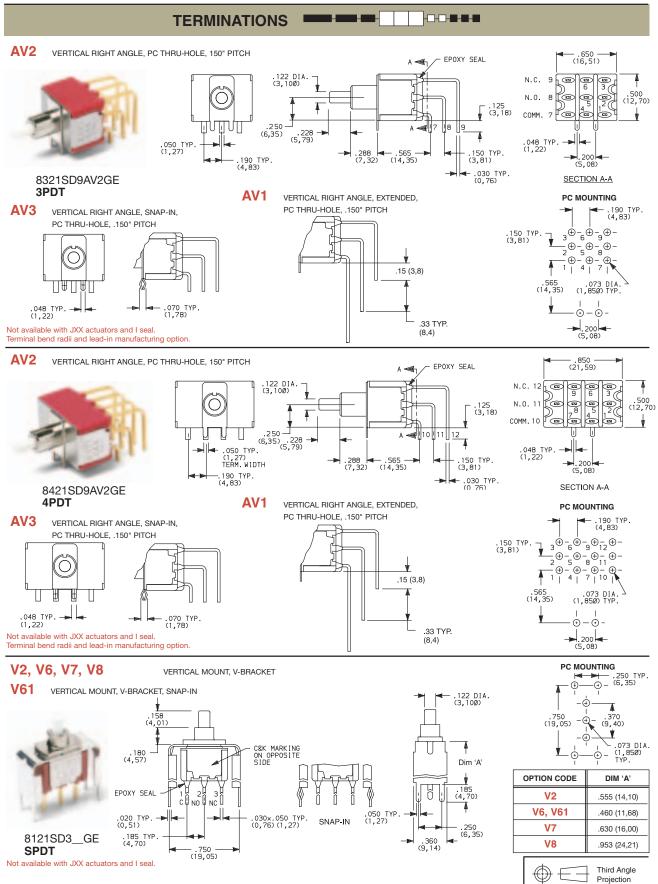






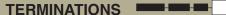
www.ck-components.com





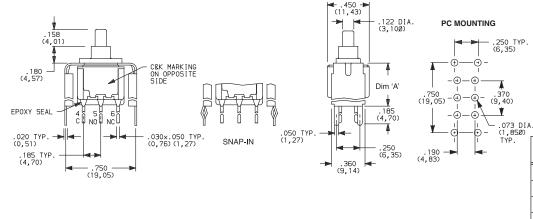
-0-0-





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

V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN



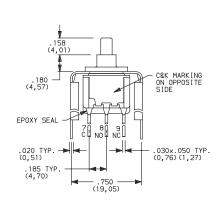


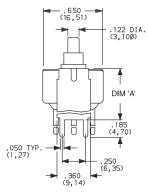
8221SD3__GE **DPDT**

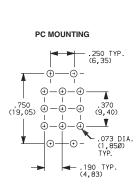
OPTION CODE	DIM 'A'	
V2	.555 (14,10)	
V6, V61	.460 (11,68)	
V7	.630 (16,00)	
V8	.953 (24,21)	

Not available with JXX actuators and I seal

V2, V7, V8 VERTICAL MOUNT, V-BRACKET







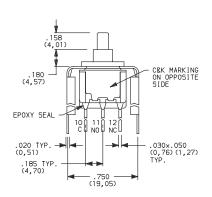


8321SD3 GE 3PDT

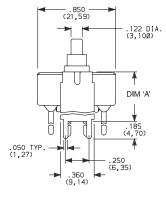
OPTION CODE	DIM 'A'
V2	.555 (14,10)
V7	.630 (16,00)
V8	.953 (24,21)

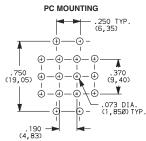
Not available with JXX actuators and I seal

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)
V8	.953 (24,21)

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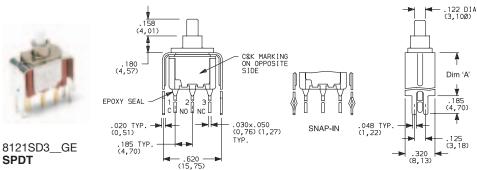


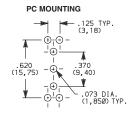
Snap-acting Momentary Pushbutton Switches

TERMINATIONS

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



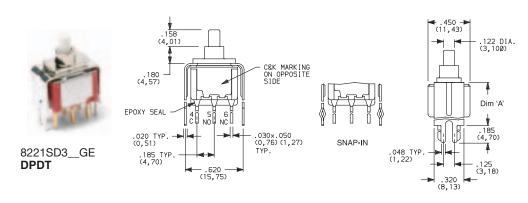


OPTION CODE	DIM 'A'	
V3, V31	.460 (11,68)	
V4	.630 (16,00)	
V9	1.150 (29,21)	

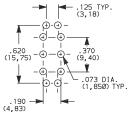
Not available with J8X actuators and I seal

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



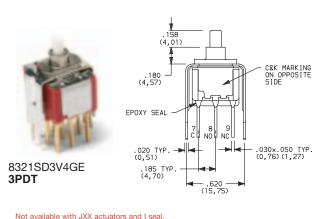




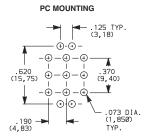
OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4	.630 (16,00)
V9	1.150 (29,21)

Not available with J8X actuators and I seal.

V4, V9 VERTICAL MOUNT, V-BRACKET



- .650 — (16,51) .122 DIA. (3,100) .630 (16,00).320 (8,13)



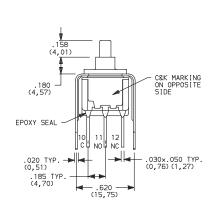
OPTION CODE	DIM 'A'	
V4	.630 (16,00)	
V9	1.150 (29,21)	

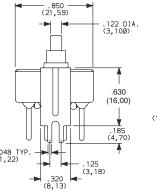


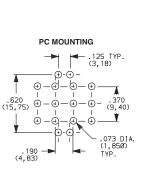


TERMINATIONS ----

V4, V9 VERTICAL MOUNT, V-BRACKET









8421SD3V4GE 4PDT

OPTION CODE	DIM 'A'	
V4	.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 ¹	GOLD ¹	LOW LEVEL/DRY CIRCUIT	8x25 MODELS ONLY: 0.4 MAX. @ 20 V AC OR DC MAX.
P	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 2,0	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.

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

U811-U841 models , With all options (except R, R2 terminations) when ordered with mandatory G. R or L 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.

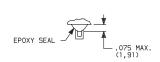
K, L and M options represent Non RoHS tin lead product and are not recommended

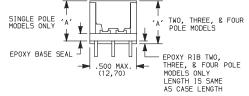
for new designs. For additional information please contact Customer Service.

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, Z, Z3 terminations only.





 $^{^{\}rm 1}$ ALL CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

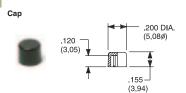
² N.O. AND N.C. CONTACTS: Coin silver, with gold plate over nickel plate.

 $^{^{\}rm 3}$ COMMON CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

⁴ TERMINALS: Copper alloy, with matte-tin over nickel plate.

Snap-acting Momentary Pushbutton Switches

AVAILABLE HARDWARE

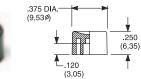


PART NO.

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

Material: Nylon Finish: Gloss

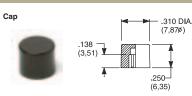




PART NO.

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

Material: Nylon Finish: Gloss

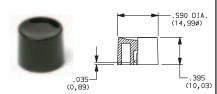


PART NO.

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

Material: Nylon Finish: Gloss

Cap, Snap-fitting plunger

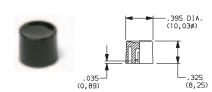


PART NO.

894001000 WHITE 894002000 BLACK 894003000 RED 894004000 ORANGE 894005000 YELLOW 894006000 GREEN 894007000 BLUE 894009000 GRAY

Material: Nylon Finish: Gloss

Cap, Snap-fitting plunger

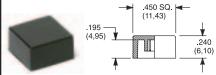


PART NO.

894101000 WHITE 894102000 BLACK 894103000 RED 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 RED 484604000 ORANGE 484605000 YELLOW 484606000 GREEN 484607000 BLUE

484609000 GRAY Material: Nylon Finish: Gloss

PART NO.

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

Material: Nylon Finish: Matte

WHITE

BLACK

ORANGE

YELLOW

GREEN

BLUE

RFD



PART NO.

615601000 WHITE 615602263 BLACK 615603000 RFD 615605000 YELLOW 615606000 GREEN 615609000 GRAY

Material: Nylon Finish: Matte

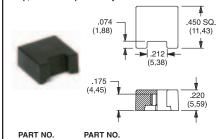


PART NO.

613301000 WHITE 613302263 BLACK 613303000 RFD 613305000 YELLOW 613306000 **GREEN** 613309000

Material: Nylon Finish: Matte

Cap, J85 & J95 options only



459701000 459702000 459703000 459704000 459705000

459706000 459707000 459709000

476801000

476809000 Material: Nylon

Material: Nylon Finish: Gloss Finish: Matte

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.





Third Angle Projection



AVAILABLE HARDWARE

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

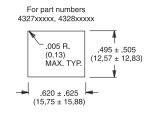




.047 (1,19) PANEL THK.	.062 (1,57) PANEL THK.	.090 (2,29) PANEL THK.	.125 (3,18) PANEL THK.
PART NO.	PART NO.	PART NO.	PART NO.
432501000	432601000	432701000	432801000 WHITE
432502263	432602263	432702263	432802263 BLACK
432503000	432603000	432703000	432803000 RED
432505000	432605000	432705000	432805000 YELLOW
432506000	432606000	432706000	432806000 GREEN
432509000	432609000	432709000	432809000 GRAY

PANEL MOUNTING

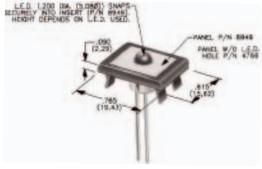
000" (2.20) DANEL THE



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.**

DANIEL INISERT



WITH HOLE FOR LED	WITHOUT HOLE FOR L	
PART NO.	PART NO.	
894901000	476601000	WHITE
894902000	476602000	BLACK
894903000	476603000	RED
894905000	476605000	YELLOW
894906000	476606000	GREEN
894909000	476609000	GRAY

BLANK PANEL INSERT

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

LED INFORMATION

SWITCHES WITH LED SUPPLIED: J85, J95 OPTIONS:

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

			TYP.	TYP.	MAX RATINGS AT 25°C AMBIENT TEMPERATURE		
OPTION CODE	COLOR	TYP. INTENSITY	FORWARD 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 cathode. 200 DIA. TYP. (0,63)

(5,08°)

.230 DIA. (0,76)

.230 DIA. (19,05)

Suggested LED for J82 & J84 options. Dimensions for reference only.

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.



(Third Angle Projection