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.

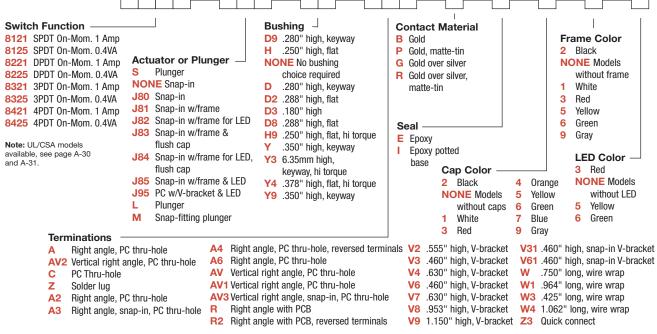
COMMON CONTACT & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

TERMINAL SEAL: Epoxy. Refer to 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.





SWITCH FUNCTION 7-----SWITCH FUNCTION CONNECTED TERMINALS POS. 1 POS. 2 POS. 1 POS. 2 UL/CSA* MODEL NO C&K marking on opposite side C&K marking on opposite side MODEL NO. SCHEMATIC U811 8121 ON (COMM) SP 1-3 1-2 • 2 8125 ON MOM. SPDT **SPDT** EPOXY SFAI 1/4±40 UNS-2A .030 x .080 TYP. (0,76) (2,03) ₩ .185 TYP (4,70) 1 COMM. .218 Terminal Nos. Part number shown: 8121SHZGE For Reference Only U821 8221 ON MOM. 1 (COMM) 4 • 2 6 • 5 DP 1-3,4-6 1-2,4-5 8225 ON MOM. DPDT C&K MARKING ON OPPOSITE SIDE **DPDT** EPOXY SEAL 1/4±40 UNS-2A .030 x .080 TYP. (0,76) (2,03) .122 DIA. -(3,100) 6 3 NC .500 (12,70) 5 2 NO .185 TYP (4,70) 1 COMM. .218 (5,54) .250 4.410 > (6,35) (10,41) Part number shown: 8221SHZGE Terminal Nos. For Reference Only 8321 **U831** ON MOM. 1-3,4-6,7-9 1-2,4-5,7-8 8325 ON MOM. 3PDT C&K MARKING ON OPPOSITE SIDE 3PDT .190 TYP. (4,83) EPOXY SEAL .040 TYP (1,02) 1/4±40 UNS-2A .030 x .080 TYP. (0,76) (2,03) .122 DIA. (3,100) € 43 NC 185 TYP (4,70) .500 8 - .650 -(16,51)

MOM. = Momentary

Part number shown: 8321SHZGE

*U811 thru U841 model numbers $_{\circ}$ \maltese 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.

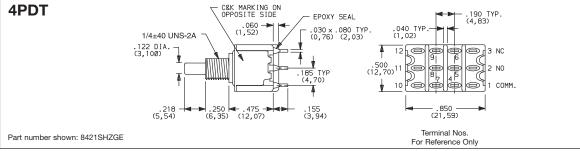
Terminal Nos. For Reference Only







			SWITCH FUNCTION		CONNECTED TERMINALS		
			POS. 1	POS. 2	POS. 1	POS. 2	
NO. POLES	MODEL NO.	UL/CSA* MODEL NO.	C&K ma	arking on ite side	C&K ma opposi	rking on te side	SCHEMATIC
45	8421	U841	ON	мом.	1010701010	1015701011	1 9 4 9 (COMM) 7 9 10 9
4P	8425		ON	мом.	1-3,4-6,7-9,10-12	1-2,4-5,7-8,10-11	3
4PD)T			C&K MARI	KING ON		190 TVP

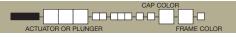


MOM. = Momentary

* U811 thru U841 model numbers ** Wath 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

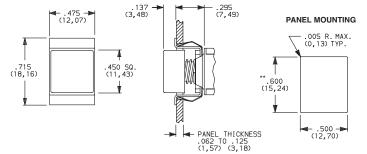


OPTION CODE	CAP AND FRAME COLOR	
2	BLACK	
NONE	No Frame Color (J80 option)	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
6	GREEN	
7	BLUE	
9	GRAY	

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.

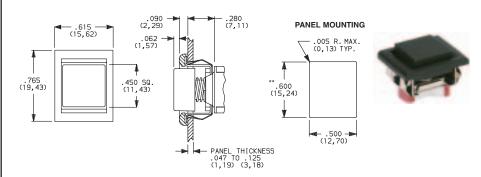




NOTE: No frame color choice required.

** 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.





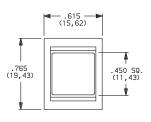
8020 Series Span-acting M

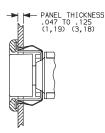
Snap-acting Momentary Pushbutton Switches

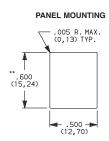
ACTUATOR—SNAP-IN FRONT MOUNT ACTUATOR OR PLUNGER FRANE COLOR

J83 SNAP-IN WITH FRAME AND FLUSH CAP



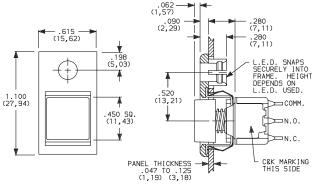


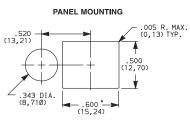




J82 SNAP-IN WITH FRAME FOR LED







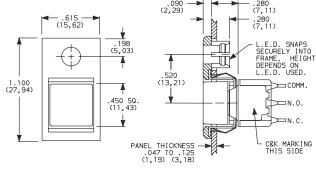
 * Increase this dim. to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

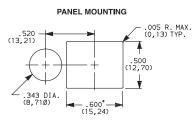
LED not included.

For LED information, see page A-45.

J84 SNAP-IN WITH FRAME FOR LED, FLUSH CAP







* 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.

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

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.



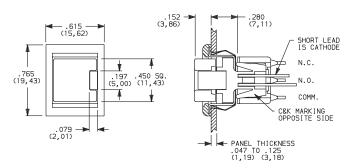


ACTUATOR-SNAP-IN FRONT MOUNT

CAP COLOR LED COLOR

ACTUATOR OR PLUNGER FRAME COLOR

J85 SNAP-IN WITH FRAME AND LED



.500 (12,70)

 * 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

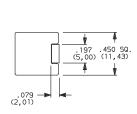
OPTION CODE	LED COLOR
3	RED
5	YELLOW
6	GREEN

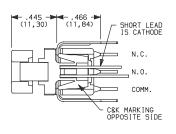
For LED information see page A-45.

ACTUATOR-PC MOUNT



J95 PC WITH V-BRACKET AND LED

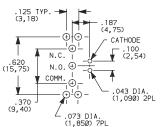




OPTION CODE	CAP AND FRAME COLOR
2	BLACK
1	WHITE
3	RED
4	ORANGE
5	YELLOW
6	GREEN
7	BLUE
9	GRAY

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

PC MOUNTING



OPTION CODE	LED COLOR	
3	RED	
5	YELLOW	
6	GREEN	

For LED information see page A-45.



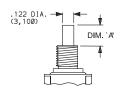
8121J95V3GE23 **SPST**

Third Angle Projection



PLUNGER ----

S PLUNGER

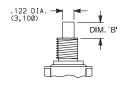


NONE

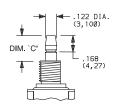
NO PLUNGER CHOICE REQUIRED (JXX ACTUATORS)

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)
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

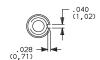
NOTE: When selecting plunger option, bushing selection must also be made, see next page. No plunger option is required when any JXX actuator option is selected. Additional plunger lengths are available on SPDT and DPDT models, consult Customer Service Center. Not all plunger lengths sufficient for use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

BUSHING ---

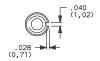
NONE

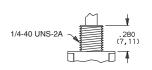
NO BUSHING CHOICE REQUIRED (JXX ACTUATORS)

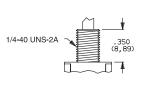
- D .280" HIGH THREADED, KEYWAY
- D9 .280" HIGH UNTHREADED, KEYWAY
- H .250" HIGH THREADED, FLAT
- H9 .250" HIGH UNTHREADED, FLAT
- Y .350" HIGH THREADED, KEYWAY
- Y9 .350" HIGH UNTHREADED, KEYWAY











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

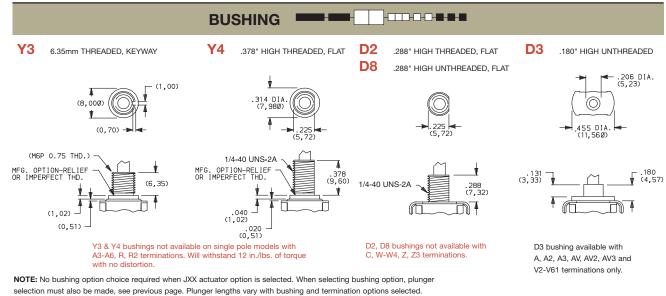
H bushing standard with C, W-W4, Z or Z3 terminations. H, H9 bushings not available on single pole models with

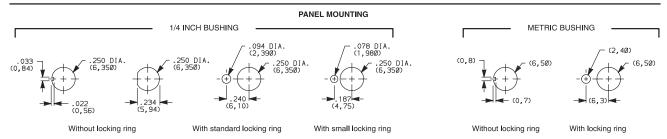
A3-A6, R, R2 terminations.

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

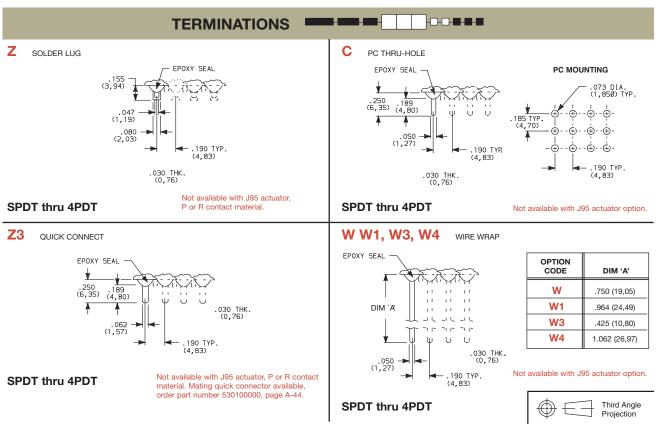








NOTE: Two mounting nuts, locking ring and lockwasher supplied standard with threaded bushings. Optional mounting nut and locking ring styles available, see section "Technical Data and Additional Hardware".



Dimensions are shown: Inches (mm)

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8020 Series

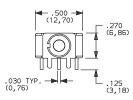
Snap-acting Momentary Pushbutton Switches

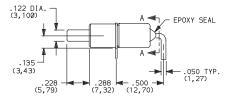
TERMINATIONS

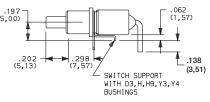
RIGHT ANGLE, PC THRU-HOLE

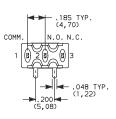


8121SD9AGE **SPDT**









SECTION A-A

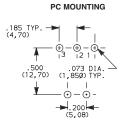
Terminal Nos. For Reference Only.

Part Number 8121SH9AGE

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





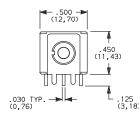


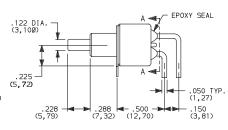
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

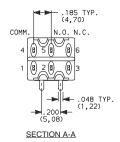
RIGHT ANGLE, PC THRU-HOLE



8221SD9AGE **DPDT**



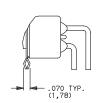


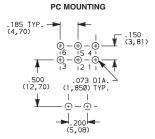


A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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





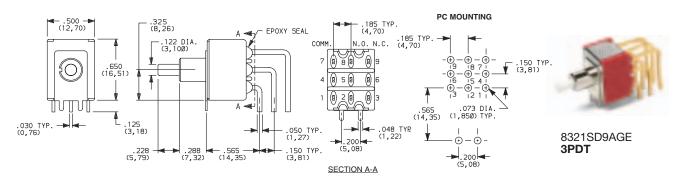




TERMINATIONS ---

RIG

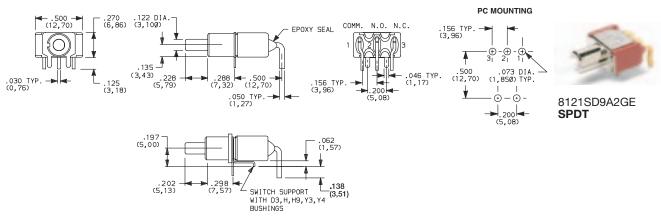
RIGHT ANGLE, PC THRU-HOLE



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

Δ2

RIGHT ANGLE, PC THRU-HOLE

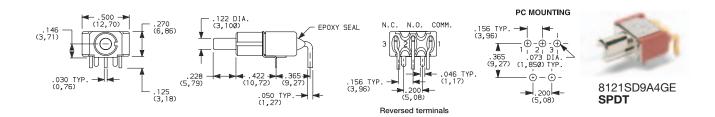


Part Number 8121SH9A2GE

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

Δ4

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.



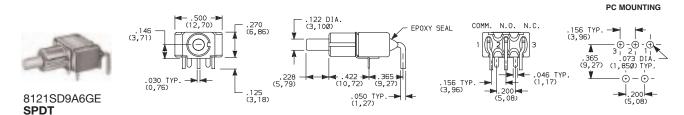
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



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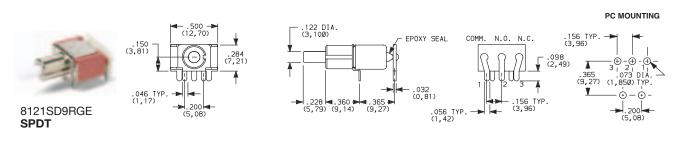
TERMINATIONS -----

A6 RIGHT ANGLE, PC THRU-HOLE



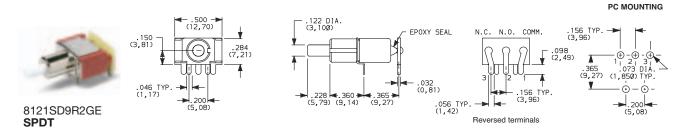
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings and I seal. Terminal bend radii and lead-in manufacturing option. The A6 and R termination options are functionally identical and fit the same PC mounting pattern, The switches, however, are shifted relative to the mounting holes. The PC pattern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

RIGHT ANGLE WITH PCB

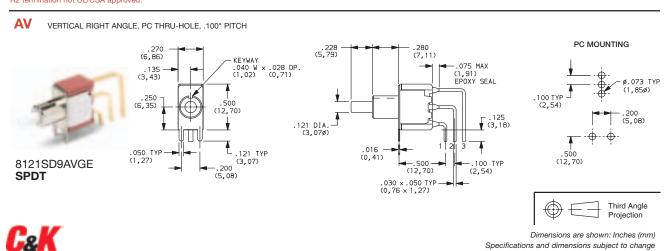


Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R termination not UL/CSA approved.

RIGHT ANGLE WITH PCB, REVERSED TERMINALS



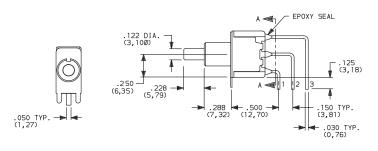
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option.

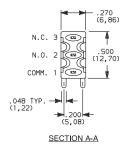


8020 Series

TERMINATIONS

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

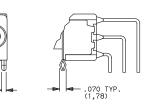




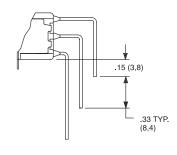


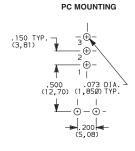
8121SD9AV2GE SPDT

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



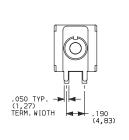
AV1 VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH

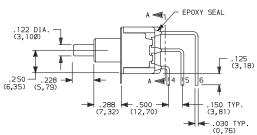


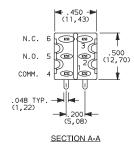


Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

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



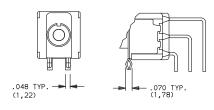






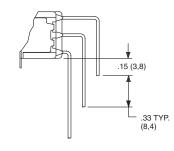
8221SD9AV2GE **DPDT**

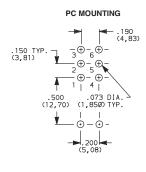
AV₃ VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH

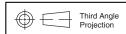


Not available with JXX actuators and I seal.

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



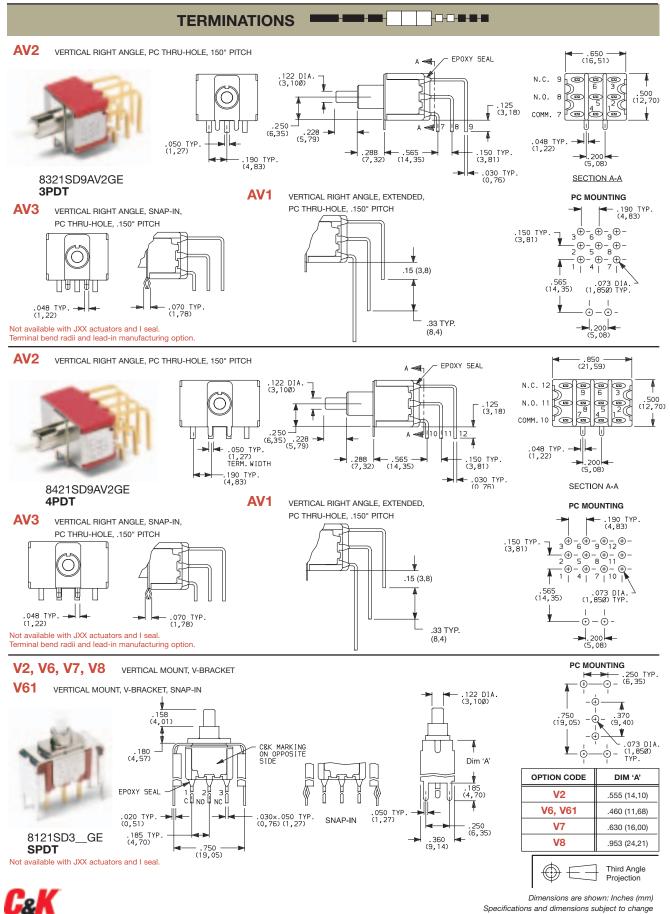




Specifications and dimensions subject to change



Dimensions are shown: Inches (mm)

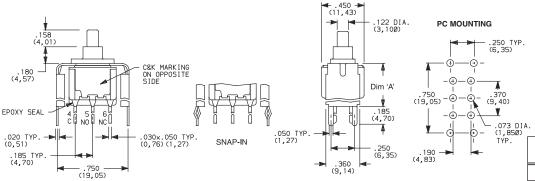


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TERMINATIONS

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

VERTICAL MOUNT, V-BRACKET, SNAP-IN



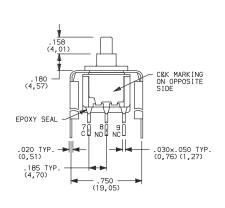


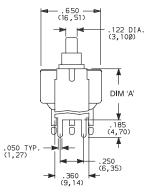
8221SD3_GE **DPDT**

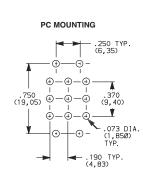
OPTION CODE	DIM 'A'	
V2	.555 (14,10)	
V6, V61	.460 (11,68)	
V 7	.630 (16,00)	
V 8	.953 (24,21)	

Not available with JXX actuators and I seal.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET







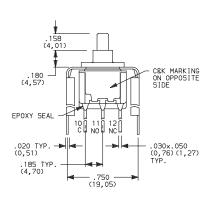


8321SD3_GE 3PDT

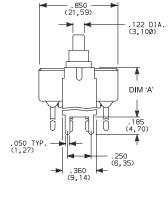
OPTION CODE	DIM 'A'
V2	.555 (14,10)
V 7	.630 (16,00)
V 8	.953 (24,21)

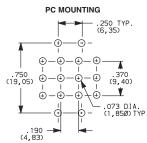
Not available with JXX actuators and I seal.

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)
V 8	.953 (24,21)

$\oplus = \exists$	Third Angle Projection





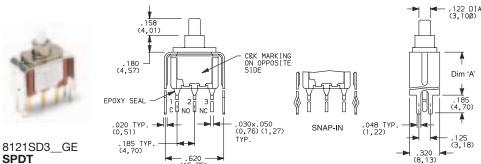
8020 Series

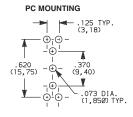
Snap-acting Momentary Pushbutton Switches

TERMINATIONS







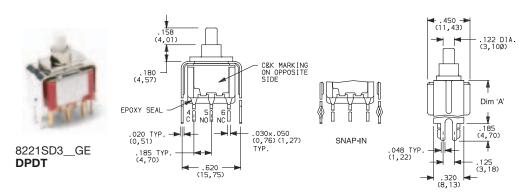


OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V 4	.630 (16,00)
V 9	1.150 (29,21)

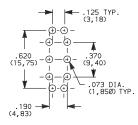
Not available with J8X actuators and I seal

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



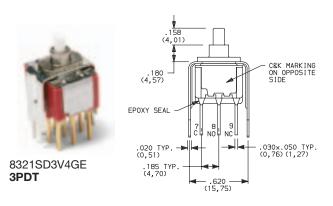




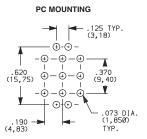
OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V 4	.630 (16,00)
V 9	1.150 (29,21)

Not available with J8X actuators and I seal.

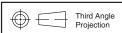
V4, V9 VERTICAL MOUNT, V-BRACKET



.122 DIA. .630 (16,00) .185 (4,70)



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



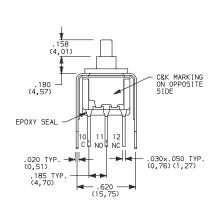
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

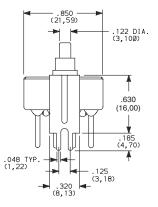


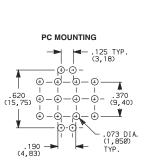
Not available with JXX actuators and I seal.

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.	
P	GOLD .	MATTE-TIN ⁴			
G	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/DRY CIRCUIT OR POWER	8X21, U8X1 MODELS ONLY: 0.4 VA MAX	
R	GOLD OVER SILVER 2,0	MATTE-TIN ⁴		@ 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 $_{\scriptscriptstyle{\otimes}}$ 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.

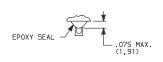
G or R contact material must be ordered with 8X21, U8X1 models.

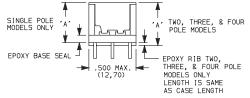
P or R contact material not available with Z, Z3 terminations.



EPOXY SEAL

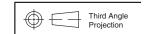
EPOXY POTTED BASE





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.

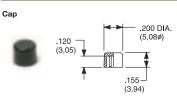




8020 Series Snap-acting Mo

Snap-acting Momentary Pushbutton Switches

AVAILABLE HARDWARE



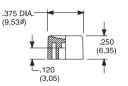
PART NO.

708901000 WHITE 708902000 BLACK 708903000 RED 708904000 ORANGE 708906000 GREEN 708906000 GREEN 708907000 BLUE

GRAY

708909000 Material: Nylon Finish: Gloss

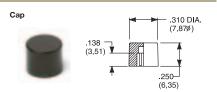




PART NO.

752701000 WHITE 752702000 BLACK 752703000 RED 752704000 ORANGE 752705000 YELLOW 752706000 GREEN 7527070000 BLUE 752709000 GRAY

Material: Nylon Finish: Gloss

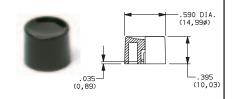


PART NO.

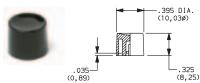
801801000 WHITE 801802000 BLACK 801803000 RED 801804000 ORANGE 801805000 YELLOW 801806000 GREEN 801807000 BLUE 801809000 GRAY

Material: Nylon Finish: Gloss

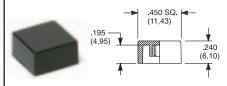
Cap, Snap-fitting plunger



Cap, Snap-fitting plunger



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



PART NO.

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

Material: Nylon Finish: Gloss

PART NO.

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

Material: Nylon Finish: Gloss

PART NO.

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

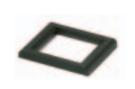
Material: Nylon Finish: Gloss

PART NO.

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

> Material: Nylon Finish: Matte

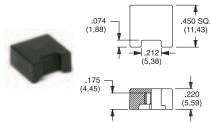
Frame



Frame



Cap, J85 & J95 options only



PART NO.

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

Material: Nylon Finish: Matte

PART NO.

613301000 WHITE 613302263 BLACK 613303000 RED 613305000 YELLOW 613306000 GREEN 613309000 GRAY

Material: Nylon Finish: Matte

PART NO.

Material: Nylon Finish: Gloss

PART NO.

476801000 WHITE 476802000 BLACK 476803000 RED 476804000 ORANGE 476805000 YELLOW 476806000 GREEN 476807000 BLUE 476809000 GRAY

lon Material: Nylon s 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.





AVAILABLE HARDWARE

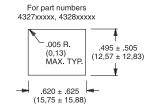
Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon.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

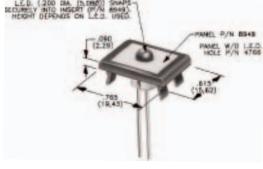
PANEL MOUNTING



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 INICEDT



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

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:

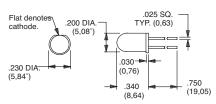
			TYP.	TYP.	MAX RATINGS AT 25°C AMBIENT TEMPERATURE		
OPTION CODE	COLOR	TYP. INTENSITY	FORWARD VOLTAGE	FORWARD CURRENT	FORWARD VOLTAGE	CONTINUOUS FORWARD CURRENT	POWER DISSIPATION
6	Green	1.0 mcd		20 mA		50 mA	125 mW
3	Red*	0.5 mcd	2.1 V	10 mA	2.5 V	30 mA	75 mW
5	Yellow	4.0 mcd		20 mA		50 mA	125 mW

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.

