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 m Ω 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.

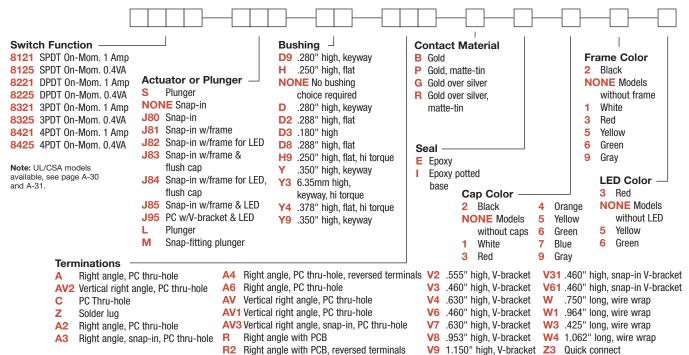
COMMON CONTACT & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

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

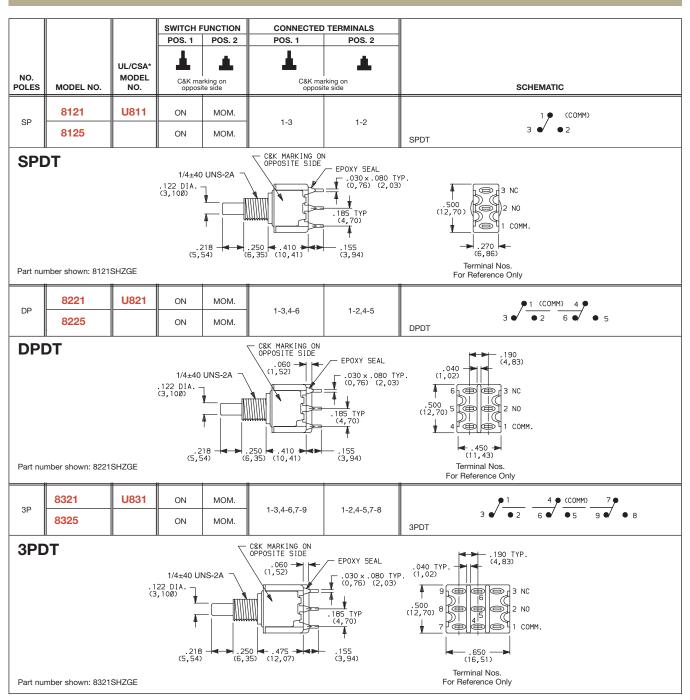
HARDWARE: Nut & Locking Ring: Brass, nickel plated; Lockwasher: Steel, nickel plated.

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

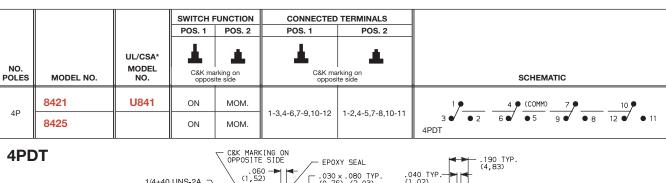
8X25 models must be ordered with B or P contact material.
8X21 and U8X1 models must be ordered with G or R contact material.











.030 x .080 TYP. (0,76) (2,03) 1/4±40 UNS-2A 3 NC 2 NO 12 (@ .185 TY (4,70) ₹1 comm. .250 - .475 - .475 - .475 - .6,35) .155 (3,94) Terminal Nos Part number shown: 8421SHZGE

MOM. = Momentary

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

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

ACTUATOR-SNAP-IN FRONT MOUNT

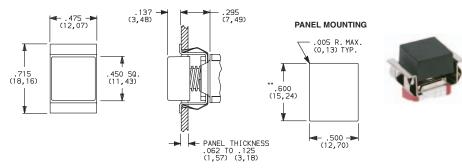


OPTION CODE	CAP AND FRAME COLOR	
2	BLACK	
NONE	No Frame Color (J80 option)	
1	WHITE	
3	RED	
4	ORANGE	
5	YELLOW	
6	GREEN	
7	BLUE	
9	GRAY	

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.

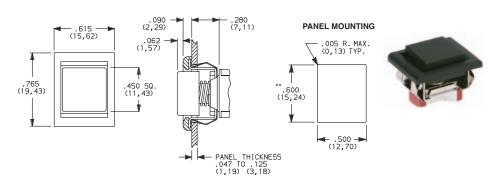
J80 SNAP-I	N
------------	---



NOTE: No frame color choice required.

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

J81 SNAP-IN WITH FRAME



NOTE: Available with C. W-W4. Z or Z3 terminations and SPDT and DPDT models only.

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

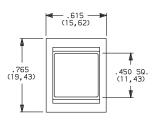


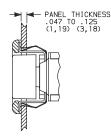


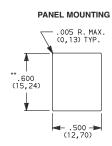
ACTUATOR — SNAP-IN FRONT MOUNT

J83 SNAP-IN WITH FRAME AND FLUSH CAP

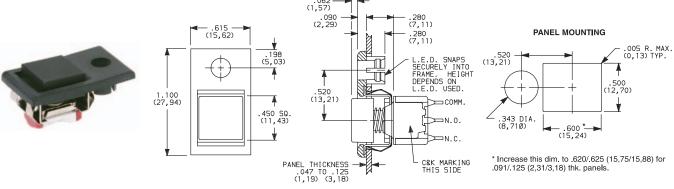








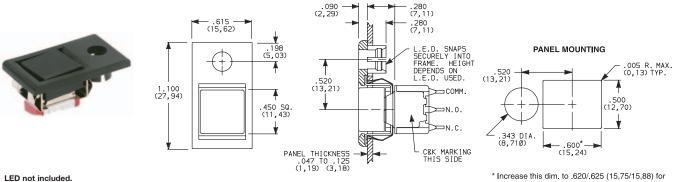
J82 SNAP-IN WITH FRAME FOR LED



LED not included.

For LED information, see page A-45.

SNAP-IN WITH FRAME FOR LED, FLUSH CAP



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

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

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

Available with C, W-W4, Z or Z3 terminations and SPDT and DPDT models only.

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





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

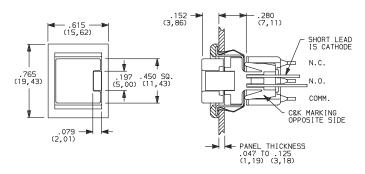
.091/.125 (2,31/3,18) thk. panels.

8020 Series



ACTUATOR-SNAP-IN FRONT MOUNT

J85 SNAP-IN WITH FRAME AND LED



PANEL MOUNTING .005 R. MAX. .600* (15,24)

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	

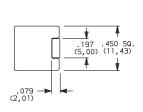
OPTION CODE	LED COLOR	
3	RED	
5	YELLOW	
6	GREEN	

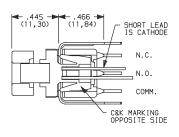
For LED information see page A-45.

ACTUATOR-PC MOUNT



J95 PC WITH V-BRACKET AND LED

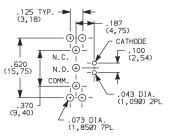




OPTION CODE	CAP AND FRAME COLOR
2	BLACK
1	WHITE
3	RED
4	ORANGE
5	YELLOW
6	GREEN
7	BLUE
9	GRAY

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

PC MOUNTING

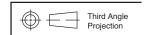


OPTION CODE	LED COLOR
3	RED
5	YELLOW
6	GREEN

For LED information see page A-45.

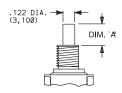


8121J95V3GE23 **SPST**





S PLUNGER

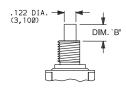


NONE 1

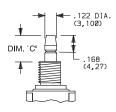
NO PLUNGER CHOICE REQUIRED (JXX ACTUATORS)

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)

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)
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

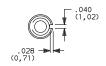
H9 .250" HIGH UNTHREADED, FLAT

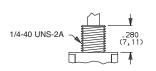
Y .350" HIGH THREADED, KEYWAY

Y9 .350" HIGH UNTHREADED, KEYWAY



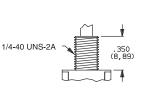






1/4-40 UNS-2A
MFG. OPTION-RELIEF
OR IMPERFECT THD.

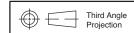
.040
(1,02)
(0,51)



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

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

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





8020 Series

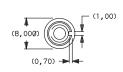


6.35mm THREADED, KEYWAY

.378" HIGH THREADED. FLAT

288" HIGH THREADED FLAT

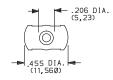
.180" HIGH UNTHREADED

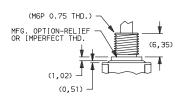


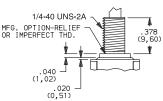


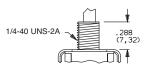


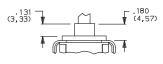
.288" HIGH UNTHREADED, FLAT











Y3 & Y4 bushings not available on single pole models with A3-A6, R, R2 terminations. Will withstand 12 in./lbs. of torque

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.

(2,40)

With locking ring

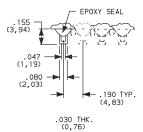
NOTE: No bushing option choice required when JXX actuator option is selected. When selecting bushing option, plunger selection must also be made, see previous page. Plunger lengths vary with bushing and termination options selected.

PANEL MOUNTING 1/4 INCH BUSHING METRIC BUSHING (0,8).250 DIA. (6,350) (6,50)With small locking ring Without locking ring With standard locking ring Without locking ring

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".

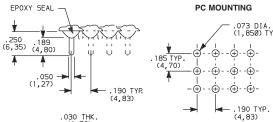


SOLDER LUG



Not available with J95 actuator.

PC THRU-HOLE EPOXY SEAL



SPDT thru 4PDT

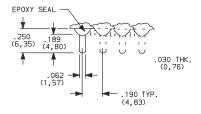
P or R contact material.

SPDT thru 4PDT

SPDT thru 4PDT

Not available with J95 actuator option.

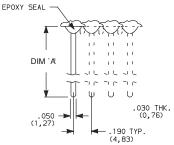
Z3 QUICK CONNECT



SPDT thru 4PDT

Not available with J95 actuator, P or R contact material. Mating quick connector avail 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.



Third Angle Projection



8020 Series Snap-acting I

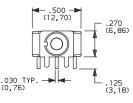
Snap-acting Momentary Pushbutton Switches

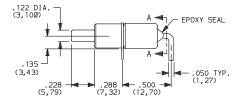
TERMINATIONS

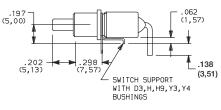
A RIGHT ANGLE, PC THRU-HOLE



8121SD9AGE SPDT







SECTION A-A

Terminal Nos.

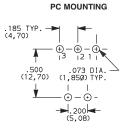
For Reference Only.

Part Number 8121SH9AGE

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







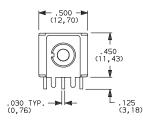
Not available with JXX actuators and I seal.
Terminal bend radii and lead-in manufacturing option.

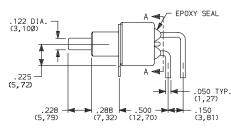
Α

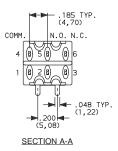
RIGHT ANGLE, PC THRU-HOLE



8221SD9AGE **DPDT**



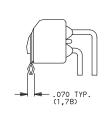


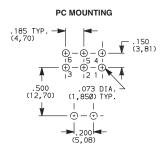


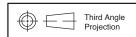
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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



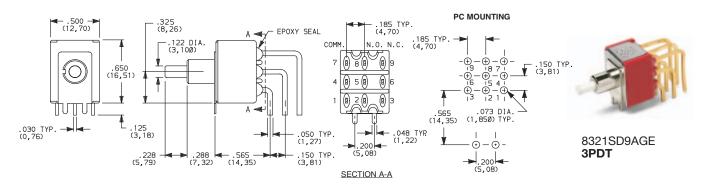






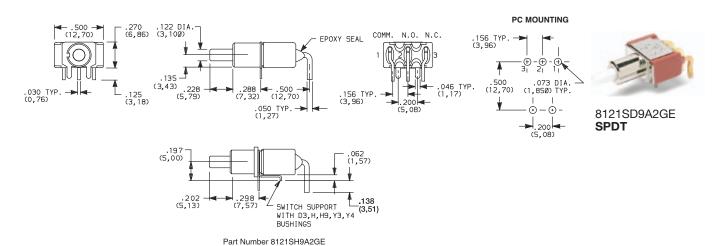
TERMINATIONS

RIGHT ANGLE, PC THRU-HOLE



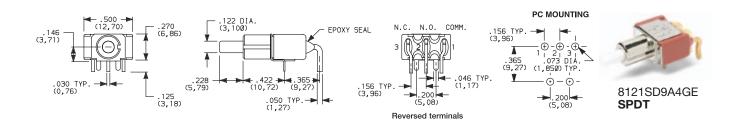
Not available with JXX actuators and I seal option. Terminal bend radii and lead-in manufacturing option.

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.

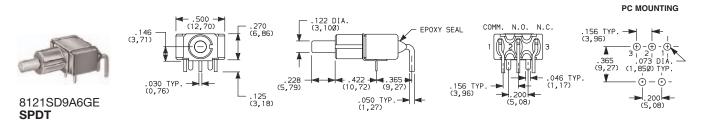
The A4 and R2 termination options are functionally identical and fit the same PC mounting pattern. The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R2, the A4 option is available with UL/CSA.





TERMINATIONS

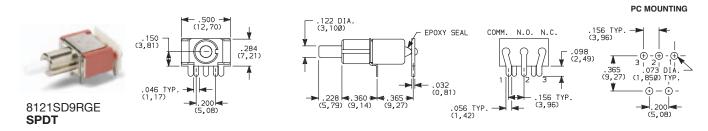
A6 RIGHT ANGLE. PC THRU-HOLE



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

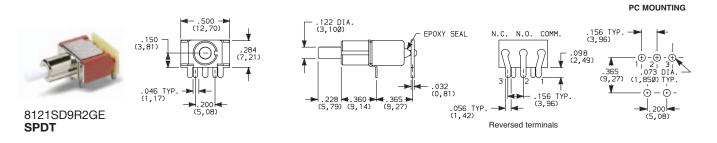
The A6 and R termination options are functionally identical and fit the same PC mounting pattern, The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R, the A6 option is available with UL/CSA.

R RIGHT ANGLE WITH PCB

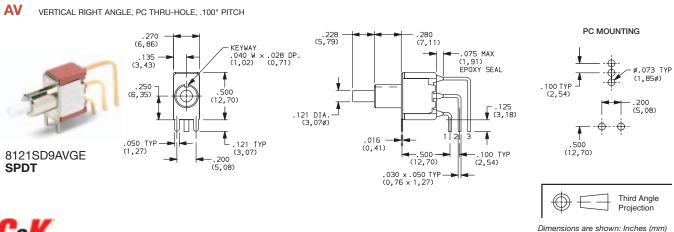


Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option. R termination not UL/CSA approved.

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.

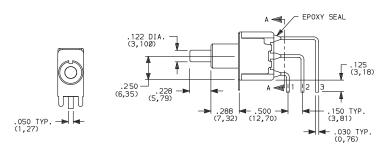


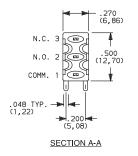
Specifications and dimensions subject to change

8020 Series

TERMINATIONS

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

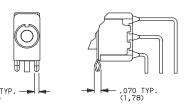




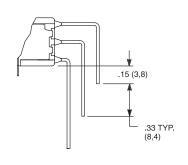


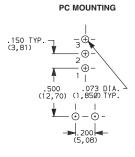
8121SD9AV2GE **SPDT**

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



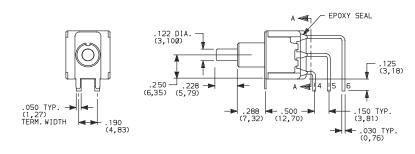
AV₁ VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH

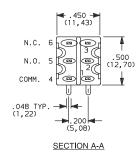




Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

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



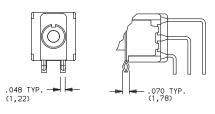




8221SD9AV2GE **DPDT**

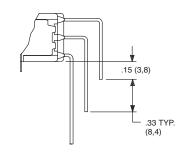
PC MOUNTING

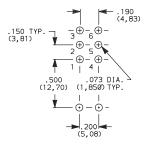
AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



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

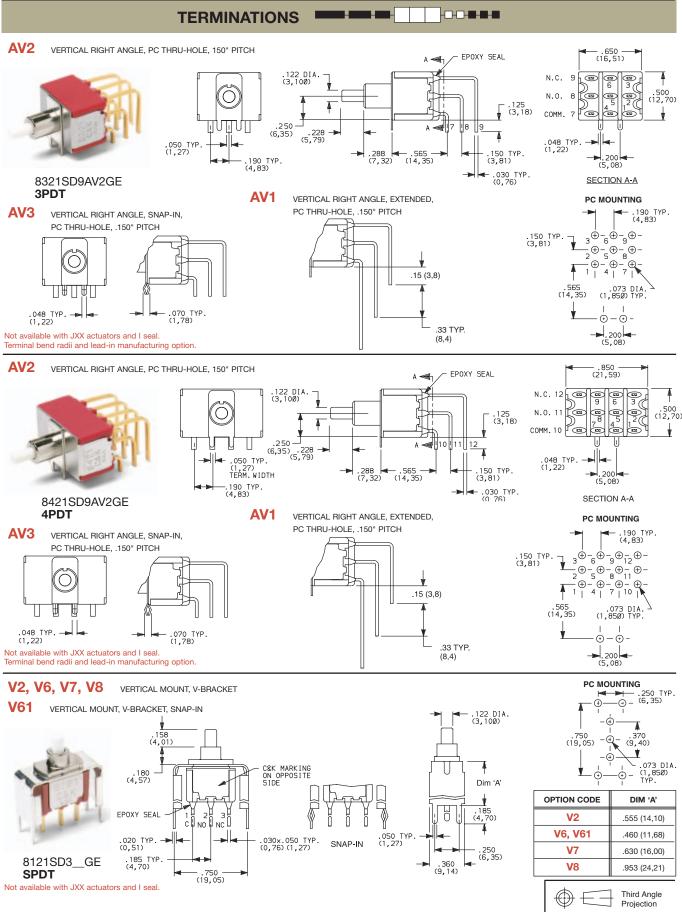
AV₁ VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH









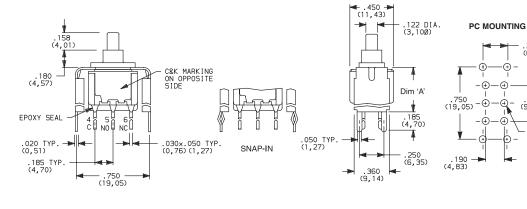




TERMINATIONS



VERTICAL MOUNT, V-BRACKET, SNAP-IN



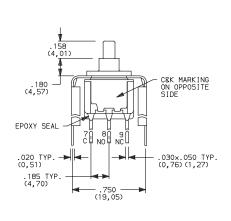


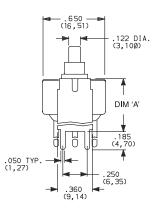
8221SD3_GE **DPDT**

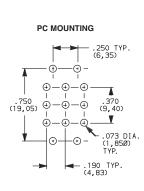
OPTION CODE	DIM 'A'	
V2	.555 (14,10)	
V6, V61	.460 (11,68)	
V7	.630 (16,00)	
V 8	.953 (24,21)	

Not available with JXX actuators and I seal

V2, V7, V8 VERTICAL MOUNT, V-BRACKET







-(-)

.370 (9,40)

.

.073 DIA. (1,85Ø) TYP. [

- **(**

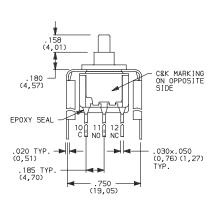


8321SD3__GE **3PDT**

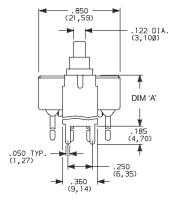
OPTION CODE	DIM 'A'
V2	.555 (14,10)
V7	.630 (16,00)
V 8	.953 (24,21)

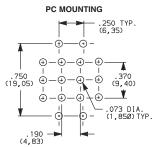
Not available with JXX actuators and I seal

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)

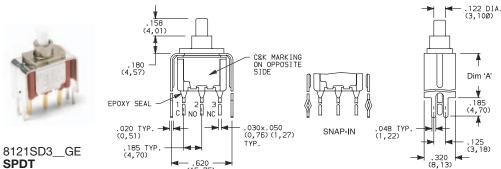
$\oplus \Box$	Third Angle Projection

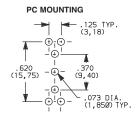


TERMINATIONS

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



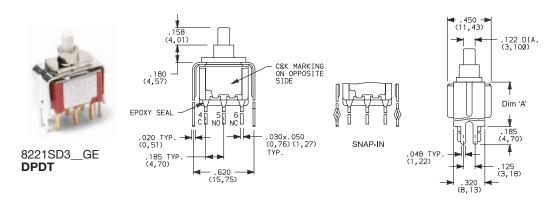


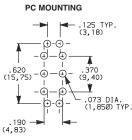
OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4	.630 (16,00)
V 9	1.150 (29,21)

Not available with J8X actuators and I seal.

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



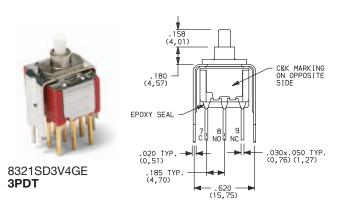


OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V 4	.630 (16,00)
V 9	1.150 (29,21)

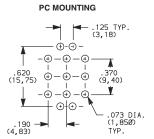
Not available with J8X actuators and I seal.

Not available with JXX actuators and I seal.

V4, V9 VERTICAL MOUNT, V-BRACKET



- .650 — (16,51) .122 DIA. (3,100) .630 (16,00) .185 (4,70) .048 TYP.



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



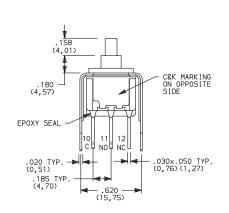
Dimensions are shown: Inches (mm)

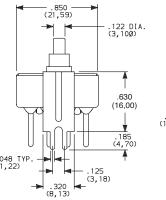


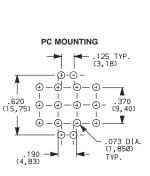
8020 Series

TERMINATIONS =

VERTICAL MOUNT, V-BRACKET









8421SD3V4GE 4PDT

OPTION CODE	DIM 'A'
V 4	.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.
Р	GOLD .	MATTE-TIN ⁴		@ 20 V AC OR DC MAX.
G	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/DRY	8X21, U8X1 MODELS ONLY: 0.4 VA MAX
R	GOLD OVER SILVER 2,00	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 ${}_{\mbox{\tiny a}}$ $\mbox{\textcircled{1}}{}^{\mbox{\tiny o}}$ 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.

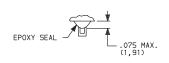
G or R contact material must be ordered with 8X21, U8X1 models.

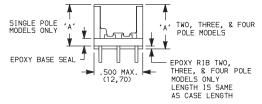
P or R contact material not available with Z, Z3 terminations.



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.

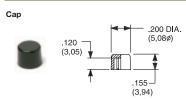




8020 Series

Snap-acting Momentary Pushbutton Switches

AVAILABLE HARDWARE



PART NO.

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

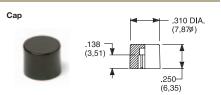
Material: Nvlon Finish: Gloss

Cap .375 DIA. (9,53ø) .250 (6,35) 120

PART NO.

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

Material: Nvlon Finish: Gloss

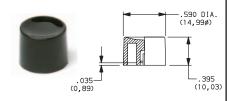


PART NO.

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

Material: Nvlon Finish: Gloss

Cap, Snap-fitting plunger

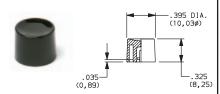


PART NO.

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

Material: Nylon Finish: Gloss

Cap, Snap-fitting plunger

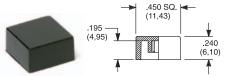


PART NO.

894101000	WHILE
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	WHILE
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

Frame



PART NO.

615602263 BLACK

Material: Nylon Finish: Matte

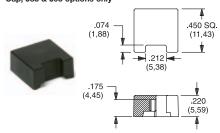


PART NO.

613302263 BLACK

Material: Nylon Finish: Matte

Cap, J85 & J95 options only



PART NO. PART NO. 476801000

459701000
459702000
459703000
459704000
459705000
459706000
459707000
459709000

476803000 RFD 476804000 ORANGE 476805000 YELLOW 476806000 GREEN 476807000 BLUE 476809000 GRAY

476802000

Material: Nylon Material: Nylon Finish: Gloss

Fits Z3 Termination female connector

PART NO.

530100000

Available in loose pieces.



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

"Technical Data and Additional Hardware".

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





AVAILABLE HARDWARE

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



(2,29)

.047" (1.19) PANEL THK.

.062" (1.57) PANEL THK.

.090" (2.29) PANEL THK.

.125" (3,18) PANEL THK

PART NO.

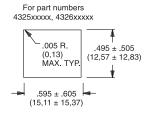
PART NO.

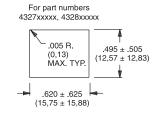
PART NO. 432702263

PART NO.

432802263 BLACK

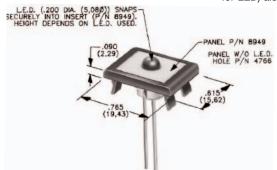
PANEL MOUNTING





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. 894902000

PART NO.

476602000 BLACK

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

LED INFORMATION

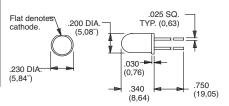
SWITCHES WITH LED SUPPLIED: J85, J95 OPTIONS:

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

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

Process Information: Soldering to LED leads must be completed within 5 seconds at 500°F (260°C) maximum.

Caution: Circuit elements must limit forward current of LED to 50mA max. continuous.
* Extra-bright red LED available (typ. intensity 4.5 mcd), consult Customer Service Center. LEDs are not supplied with J82, J84 options. LED snaps into switch frame surrounding actuator and is wired externally.



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



