#### 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.

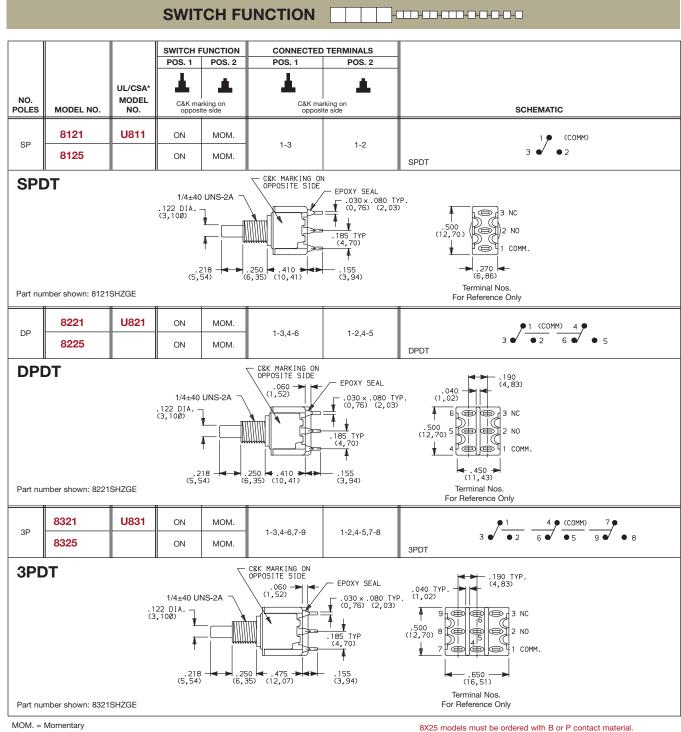
HOUSING: Stainless steel.

- 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 soldering and cleaning Technical Data Chapter.
- HARDWARE: Nut & Locking Ring: Brass, nickel plated; Lockwasher: Steel, nickel plated.

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

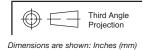
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-30 thru A-45. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all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

| 8225         DPDT On-Mom. 0.4VA         S           8321         3PDT On-Mom. 1 Amp         S           8325         3PDT On-Mom. 0.4VA         J80           3421         4PDT On-Mom. 0.4VA         J81           3425         4PDT On-Mom. 0.4VA         J83           Note: UL models         available, see page A-30         J84           and A-31.         J85         J95 | J<br>Plunger<br>E Snap-in<br>Snap-in w/frame<br>Snap-in w/frame for LED<br>Snap-in w/frame for LED,<br>flush cap<br>Snap-in w/frame & LED<br>PC w/V-bracket & LED<br>Plunger<br>Snap-fitting plunger | <ul> <li>Bushing J</li> <li>D9 .280" high, keyway</li> <li>H .250" high, flat</li> <li>NONE No bushing<br/>choice required</li> <li>D .280" high, keyway</li> <li>D2 .288" high, flat</li> <li>D3 .180" high</li> <li>D8 .288" high, flat</li> <li>H9 .250" high, flat, hi torque</li> <li>Y .350" high, keyway</li> <li>Y3 6.35mm high,<br/>keyway, hi torque</li> <li>Y4 .378" high, flat, hi torque</li> <li>Y9 .350" high, keyway</li> </ul> | B Gold<br>P Gold<br>G Gold<br>R Gold<br>mat | i, matte-tin<br>I over silver<br>I over silver,<br>te-tin<br>Xy<br>xy potted                                                                                                          | 4 Orangu<br>5 Yellow<br>6 Green<br>7 Blue           | without LED                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminations         A       Right angle, PC thru-hu         AV2       Vertical right angle, PC         C       PC Thru-hole         Z       Solder lug         A2       Right angle, PC thru-hu         A3       Right angle, snap-in, P                                                                                                                                          | C thru-hole A6 Right a<br>AV1 Vertica<br>AV3 Vertica                                                                                                                                                 | angle, PC thru-hole, reversed termina<br>angle, PC thru-hole<br>al right angle, PC thru-hole<br>al right angle, snap-in, PC thru-hole                                                                                                                                                                                                                                                                                                            | V3<br>V4<br>V6<br>V7<br>V8                  | 3 Red<br>.555" high, V-bracket<br>.460" high, V-bracket<br>.630" high, V-bracket<br>.630" high, V-bracket<br>.630" high, V-bracket<br>.953" high, V-bracket<br>1.150" high, V-bracket | V61 .460<br>W .750<br>W1 .964<br>W3 .423<br>W4 1.00 | 0" high, snap-in V-bracket<br>0" high, snap-in V-bracket<br>0" long, wire wrap<br>4" long, wire wrap<br>5" long, wire wrap<br>62" long, wire wrap<br>ck connect<br>Dimensions are shown: Inches (mm |



\*U811 thru U841 model numbers CNUs 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.



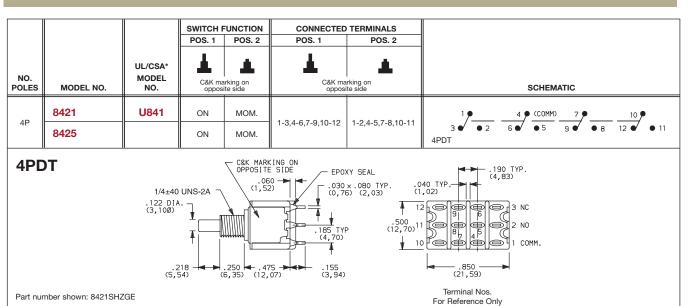
Specifications and dimensions subject to change

**C**&K 9 Feb 22

Pushbutton >

www.ckswitches.com

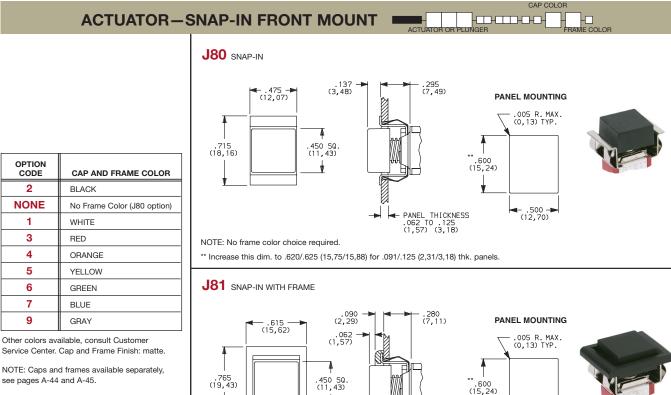
SWITCH FUNCTION



MOM. = Momentary

\* U811 thru U841 model numbers cmus 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.



4

see pages A-44 and A-45.

9 Feb 22

PANEL THICKNESS .047 TO .125 (1,19) (3,18)

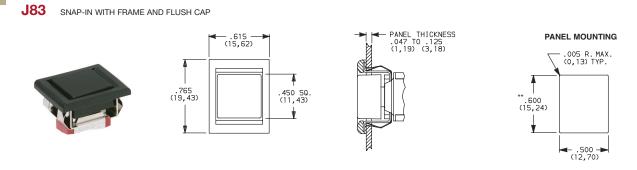
Projection Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

- .500 -(12,70)

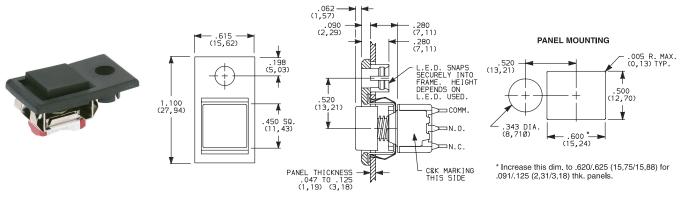
A Pushbutton

Third Angle

ACTUATOR-SNAP-IN FRONT MOUNT 



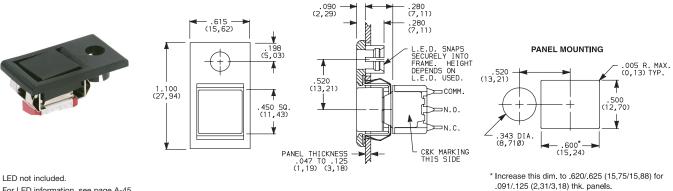
**J82** SNAP-IN WITH FRAME FOR LED



LED not included.

For LED information, see page A-45.

**J84** SNAP-IN WITH FRAME FOR LED, FLUSH CAP



For LED information, see page A-45.

| OPTION<br>CODE | CAP AND FRAME<br>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

Downloaded from Arrow.com.

# PHAME COLOR

8020 Series



8121J85ZGE223 SPST

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

.079 (2,01)

**J85** 

.765 (19,43)

Ĩ

SNAP-IN WITH FRAME AND LED

- .615 -(15,62)

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

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

ACTUATOR-SNAP-IN FRONT MOUNT

Ø

.280

PANEL THICKNESS .047 T0 .125 (1,19) (3,18)

SHORT LEAD IS CATHODE

N.C.

N.O.

COMM. C&K MARKING OPPOSITE SIDE

.152 (3,86)

4

v

.197 .450 SQ. (5,00) (11,43)

ŧ

Å

| OPTION<br>CODE                     | LED COLOR |  |
|------------------------------------|-----------|--|
| 3                                  | RED       |  |
| 5                                  | YELLOW    |  |
| 6                                  | GREEN     |  |
| For LED information see page A-45. |           |  |

**Snap-acting Momentary Pushbutton Switches** 

.600\*

Y

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

PANEL MOUNTING

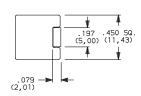
.005 R. MAX. (0,13) TYP.

> - .500 -(12**,**70)

\* Increase this dim. to .620/.625 (15,75/15,88) for

#### 

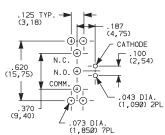
#### J95 PC WITH V-BRACKET AND LED



| ◀ .445 <del>&gt;</del><br>(11,30) | (11,84) – 9 | GHORT LEAD<br>IS CATHODE |
|-----------------------------------|-------------|--------------------------|
|                                   |             | N.C.                     |
|                                   |             | _ N.O.                   |
|                                   |             | COMM.                    |
|                                   |             | MARKING<br>DSITE SIDE    |

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

PC MOUNTING



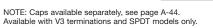
| OPTION<br>CODE                     | LED COLOR |  |
|------------------------------------|-----------|--|
| 3                                  | RED       |  |
| 5                                  | YELLOW    |  |
| 6                                  | GREEN     |  |
| For LED information see page A-45. |           |  |



8121J95V3GE23 SPST

|  | rd Angle<br>jection |
|--|---------------------|
|--|---------------------|

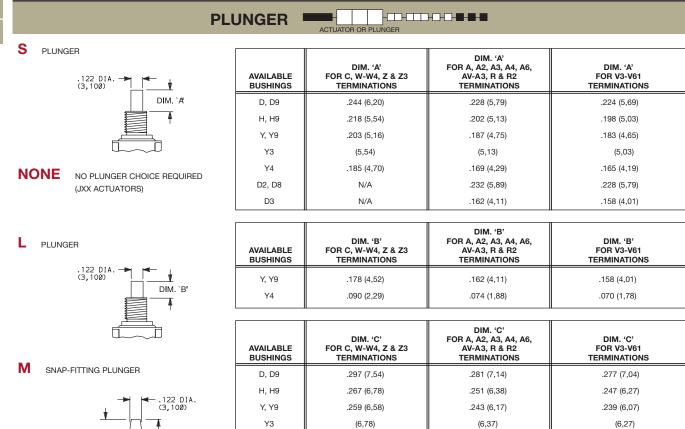
Specifications and dimensions subject to change





Downloaded from Arrow.com.

Dimensions are shown: Inches (mm)



.259 (6,58)

N/A

N/A

.243 (6,17)

.273 (6,93)

.361 (9,17)

N/A = NOT AVAILABLE

Y4

D2, D8

D3

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.

DIM. `C'

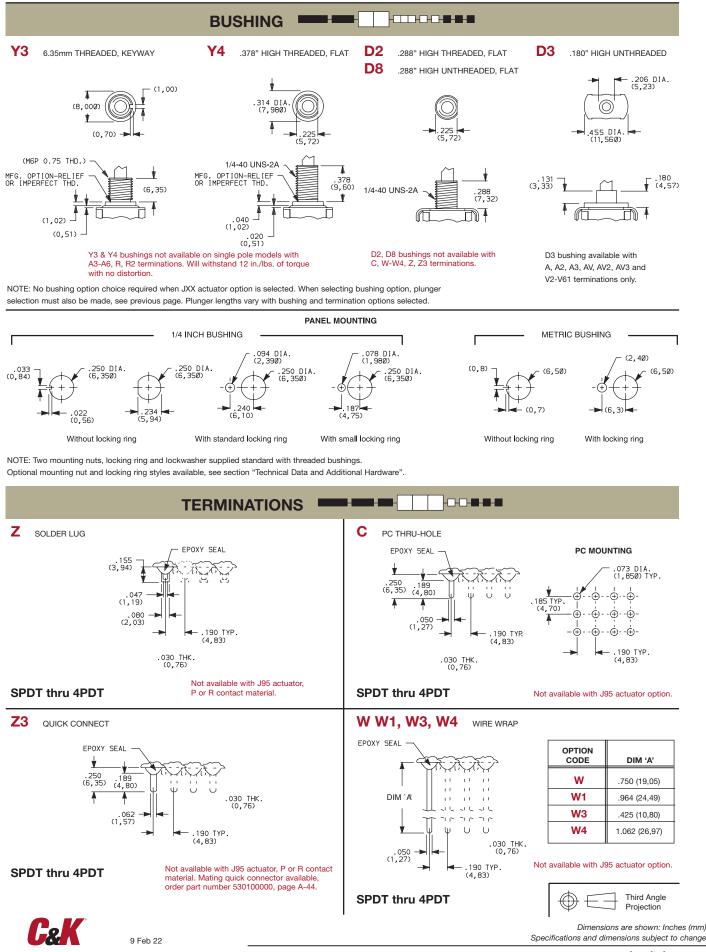
.168 (4**,**27)

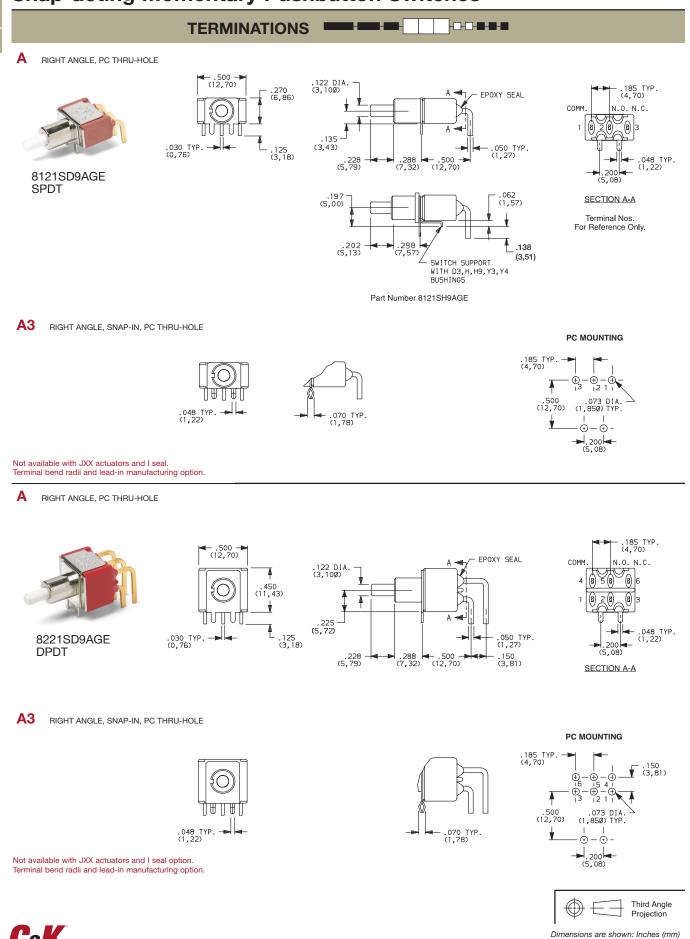
| Not all plunger | lengths sufficient for use w                     | an caps, see page A 44.                                                                    |                                                                                                                    |                                                                                     |
|-----------------|--------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                 |                                                  | BUSHING                                                                                    |                                                                                                                    |                                                                                     |
| NONE            | NO BUSHING<br>CHOICE REQUIRED<br>(JXX ACTUATORS) | <ul> <li>280" HIGH THREADED, KEYWAY</li> <li>28034" HIGH UNTHREADED,<br/>KEYWAY</li> </ul> | <ul> <li>H .250"34 HIGH THREADED, FLAT</li> <li>H9 .250"34 HIGH UNTHREADED,<br/>FLAT</li> </ul>                    | Y .350" HIGH THREADED, KEYWAY<br>Y9 .350" HIGH UNTHREADED, KEYWAY                   |
|                 |                                                  | .028<br>(0,71)                                                                             | .314 DIA.<br>(7,980)<br>.225<br>(5,72)                                                                             | .028<br>(0,71)                                                                      |
|                 |                                                  | 1/4-40 UNS-2A                                                                              | 1/4-40 UNS-2A<br>MFG. OPTION-RELIEF<br>OR IMPERFECT THD.<br>.040<br>(1,02)<br>.020<br>(0,51)                       | 1/4-40 UNS-2A<br>(8,89)<br>5)                                                       |
|                 |                                                  | D9 bushing standard with A-A6,<br>R, R2 AV-AV3 terminations.                               | H bushing standard with C, W-W4, Z or Z<br>H, H9 bushings not available on single po<br>A3-A6, R, R2 terminations. |                                                                                     |
|                 |                                                  |                                                                                            | Will withstand 12 in./lbs. of torque with no distortion.                                                           | Third Angle<br>Projection                                                           |
| G&K             | 9 Feb 22                                         |                                                                                            | S                                                                                                                  | Dimensions are shown: Inches (mm)<br>pecifications and dimensions subject to change |
|                 | 010022                                           |                                                                                            | A-34                                                                                                               | www.ckswitches.com                                                                  |

.239 (6,07)

.269 (6,83)

.357 (9,07)





Downloaded from Arrow.com.

9 Feb 22

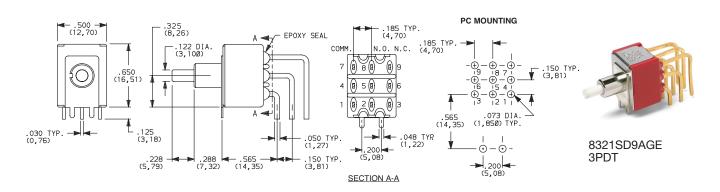
Pushbutton >

www.ckswitches.com

Specifications and dimensions subject to change

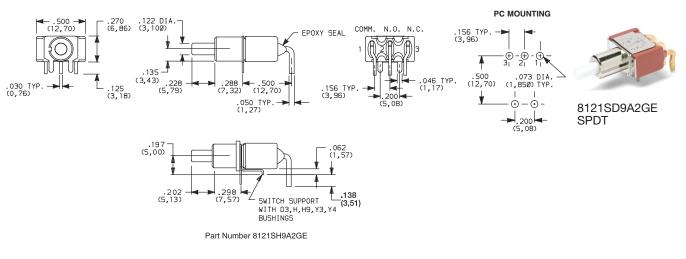
TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE



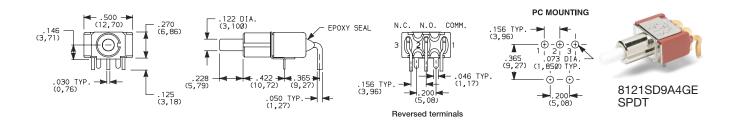
Not available with JXX actuators and I seal option. Terminal bend radii and lead-in manufacturing option

A2 RIGHT ANGLE, PC THRU-HOLE



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

A4 RIGHT ANGLE, PC THRU-HOLE, REVERSED TERMINALS



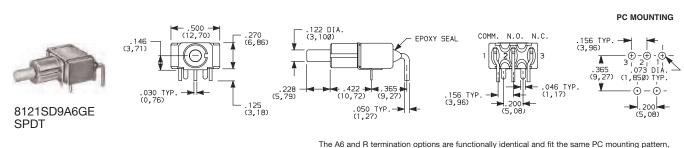
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings and I seal. Terminal bend radii and lead-in manufacturing option. The A4 and R2 termination options are functionally identical and fit the same PC mounting pattern. The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R2, the A4 option is available with UL/CSA.





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

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.

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

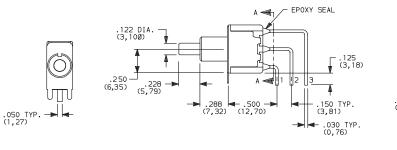
9 Feb 22



Third Angle Projection

<u>}</u>\_\_\_\_**₽\_₽**₽ **TERMINATIONS** 

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



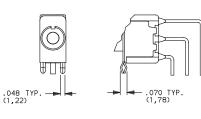
AV1

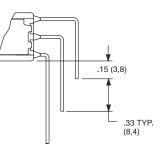
.270 (6,86) N.С. З 4 .500 (12,70) N.O. 2 F COMM. 1 .048 TYP. → (1,22) 200 (5,08) SECTION A-A



8121SD9AV2GE SPDT

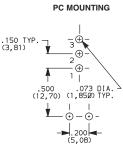
AV3 VERTICAL RIGHT ANGLE, SNAP-IN,, PC THRU-HOLE, .150" PITCH





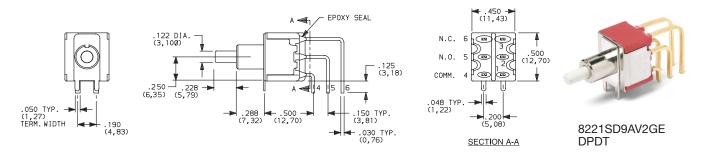
VERTICAL RIGHT ANGLE, EXTENDED,

PC THRU-HOLE, .150" PITCH



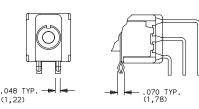
Not available with JXX actuators and I seal Terminal bend radii and lead-in manufacturing option.

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



AV3

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



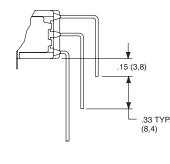
9 Feb 22

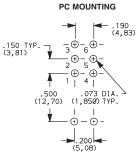
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.



(1,22)

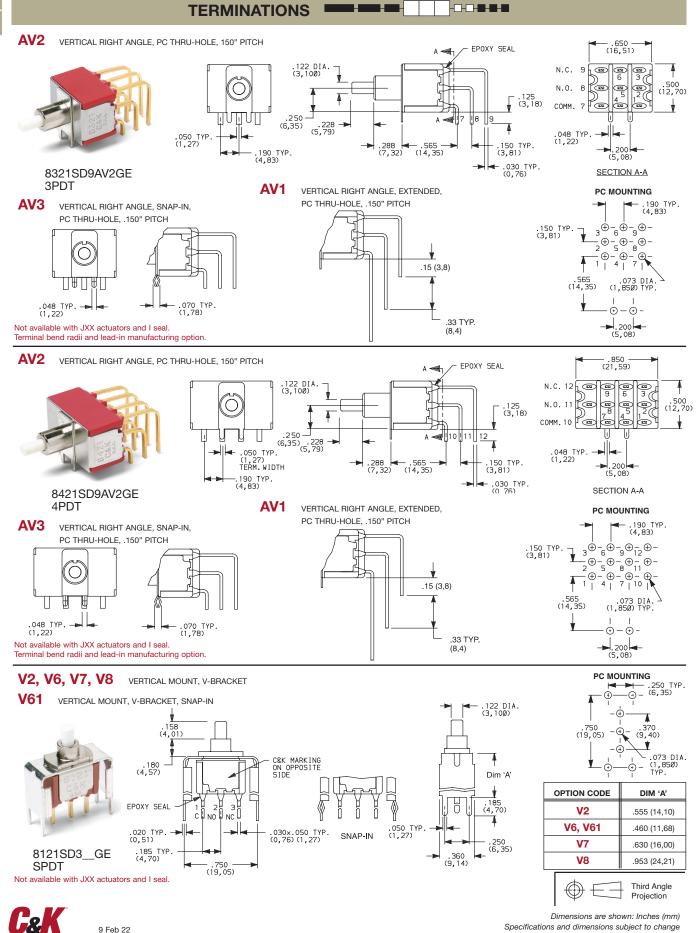
- AV1 VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH







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



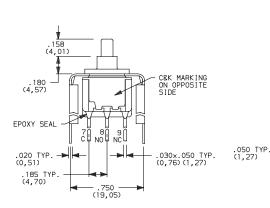
┝ᢕᢕ᠊᠊᠊᠊᠊᠊᠆᠊᠊᠊ -----**TERMINATIONS** V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN ← .450 → (11,43) .122 DIA. (3,10Ø) PC MOUNTING .158 (4,01) .250 TYP. (6,35) Θ C&K MARKING ON OPPOSITE SIDE 4 l. .180 Ð Ð Dim 'A' .370 (9,40) (19,05) -⊕  $\oplus$ DPDT ¥ ĥ ¥ EPOXY SEAL 5 NO 6 NC .185 æ .073 DIA. (1,85Ø) TYP. .050 TYP (1,27) .020 TYP. (0,51) .030x.050 TYP. (0,76)(1,27) SNAP-IN .250 (6,35) .185 TYP. (4,70) .190 .360 (9,14) -.750 -(19,05) Not available with JXX actuators and I seal.

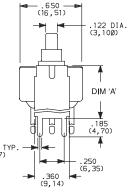


8221SD3\_GE

| ַ |                |              |
|---|----------------|--------------|
|   | OPTION<br>CODE | DIM 'A'      |
|   | V2             | .555 (14,10) |
|   | V6, V61        | .460 (11,68) |
|   | <b>V</b> 7     | .630 (16,00) |
|   | <b>V</b> 8     | .953 (24,21) |

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





PC MOUNTING .250 TYP. (6,35) Θ Ð . • 🕀 A .750 (19,05) .370 (9,40) Ð Ð ÷Ð ¥ Ð Ŧ .073 DIA. (1,85Ø) TYP. .190 TYP. (4,83)

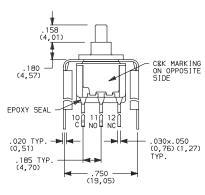


8321SD3\_\_GE 3PDT

| OPTION<br>CODE | DIM 'A'      |
|----------------|--------------|
| V2             | .555 (14,10) |
| <b>V</b> 7     | .630 (16,00) |
| <b>V</b> 8     | .953 (24,21) |

#### Not available with JXX actuators and I seal

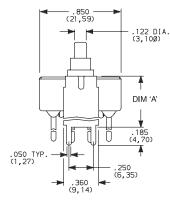


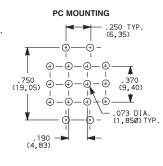


Not available with JXX actuators and I seal.

9 Feb 22







OPTION CODE

**V**2

**V**7

**V**8

DIM 'A'

.555 (14,10)

.630 (16,00)

.953 (24,21)

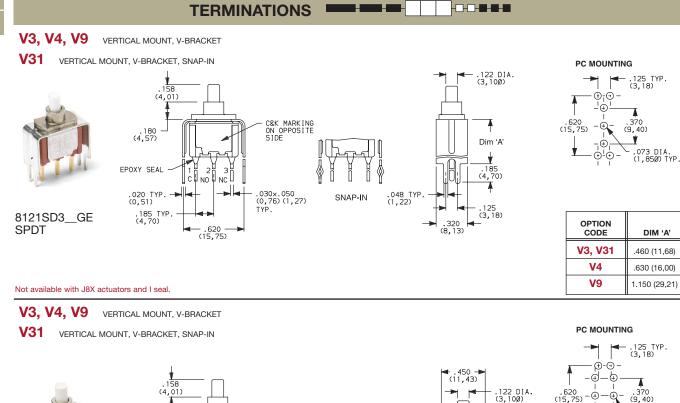


8421SD3\_\_GE 4PDT

| ${}$ | Third Angle<br>Projection |
|------|---------------------------|
|------|---------------------------|

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change



C&K MARKING ON OPPOSITE SIDE

.030x.050 (0,76)(1,27) TYP.

SNAP-IN

.048 TYP

F

- .620 -(15,75)

#### Not available with J8X actuators and I seal.

8221SD3\_GE

DPDT

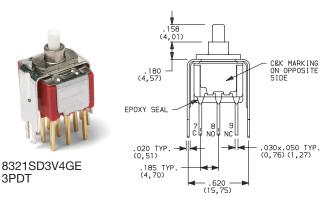
V4, V9 VERTICAL MOUNT, V-BRACKET

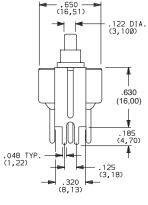
.180 (4,57)

EPOXY SEAL

.020 TYP. (0,51)

> .185 TYP (4,70)





PC MOUNTING

¥

.073 DIA. (1,850) TYP.

DIM 'A'

.460 (11,68)

.630 (16,00)

1.150 (29,21)

Ð

OPTION

CODE

V3, V31

**V**4

**V**9

.190 (4,83)

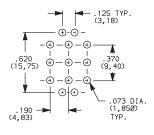
Dim 'A'

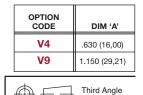
.185 (4,70)

4

.125 (3,18)

.320 (8,13) b-6





Not available with JXX actuators and I seal.



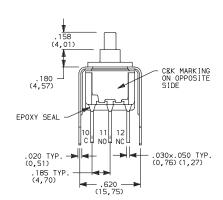
Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

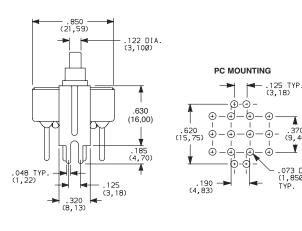
Downloaded from Arrow.com.

Projection

<u>}</u>\_\_\_\_**₽\_₽**₽ TERMINATIONS

#### V4, V9 VERTICAL MOUNT, V-BRACKET







8421SD3V4GE 4PDT

370

(9,40)

.073 DIA. (1,850)

TYP.

| OPTION<br>CODE | DIM 'A'       |  |
|----------------|---------------|--|
| <b>V</b> 4     | .630 (16,00)  |  |
| <b>V</b> 9     | 1.150 (29,21) |  |

Not available with JXX actuators and I seal

#### CONTACT MATERIAL **\_\_\_**₽₽₽₽

| OPTION<br>CODE | CONTACT<br>MATERIAL  | TERMINAL<br>PLATING    | RATINGS               |                                                         |  |
|----------------|----------------------|------------------------|-----------------------|---------------------------------------------------------|--|
| В              | GOLD <sup>1</sup>    | GOLD 1                 | LOW LEVEL/DRY CIRCUIT | 8x25 MODELS ONLY: 0.4 MAX.                              |  |
| Р              | GOLD                 | MATTE-TIN <sup>4</sup> |                       | @ 20 V AC OR DC MAX.                                    |  |
| G              | GOLD OVER SILVER 2,3 | GOLD <sup>3</sup>      | LOW LEVEL/DBY         | 8X21, U8X1 MODELS ONLY: 0.4 VA MAX                      |  |
| R              | GOLD OVEN BILVEN -   | MATTE-TIN <sup>4</sup> | CIRCUIT OR POWER      | @ 20 V AC OR DC MAX. OR 1 AMP<br>@ 120 V AC OR 28 V DC. |  |

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

<sup>1</sup> ALL CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

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

<sup>3</sup> COMMON CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate

<sup>4</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

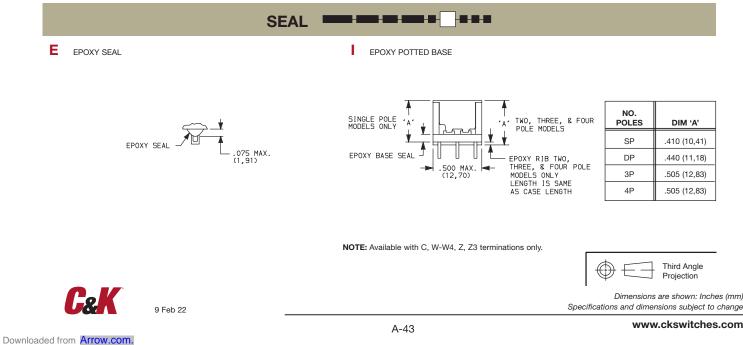
#### NOTE: Any models supplied with B, P, R or G contact material are RoHS compliant.

U811-U841 models  ${}_{\circ}$   $\mathbf{N}$   ${}_{\circ}$   ${}^{\circ}$  with all options (except R, R2 terminations) when ordered with mandatory G or R contact material.

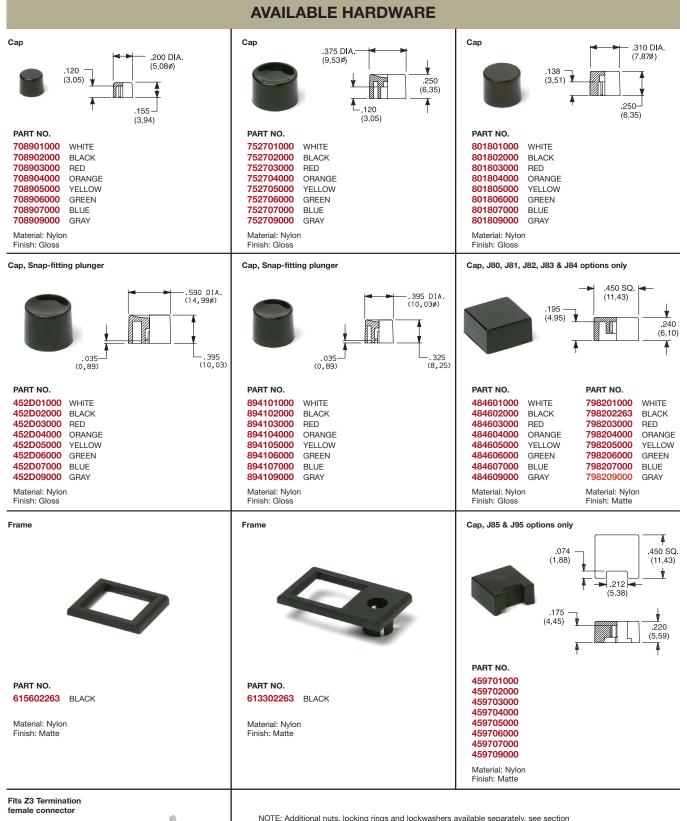
B or P contact material must be ordered with 8X25 models.

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

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



Pushbutton >



PART NO.

530100000



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Available in loose pieces.



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

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"Technical Data and Additional Hardware"

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

www.ckswitches.com

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.

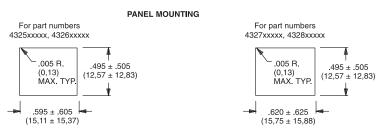




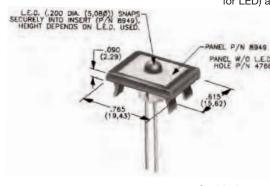
.090" (2,29) PANEL THK.

PART NO. 432702263 .125" (3,18) PANEL THK PART NO.

432802263 BLACK



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

Flat denotes

cathode

.230 DIA

(5.84)

PART NO.

894902000

BLANK PANEL INSERT WITHOUT HOLE FOR LED

PART NO. 476602000 BLACK

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

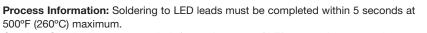
#### LED INFORMATION

SWITCHES WITH LED SUPPLIED: J85, J95 OPTIONS:

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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 |                    |                               | EMPERATURE           |
|----------------|--------|-------------------|--------------------|----------------------------------------------|--------------------|-------------------------------|----------------------|
| OPTION<br>CODE | COLOR  | TYP.<br>INTENSITY | FORWARD<br>VOLTAGE | FORWARD                                      | FORWARD<br>VOLTAGE | CONTINUOUS<br>FORWARD CURRENT | POWER<br>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               |



**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.



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

.030-

(0,76)

.340

(8,64)

200 DIA

(5.08))

Third Angle Projection

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

.025 SQ.

750

(19,05)

TYP. (0,63)