



## Pushbutton

- 

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

**V31** .460" high, snap-in V-bracket  
**V61** .460" high, snap-in V-bracket  
**W** .750" long, wire wrap  
**W1** .964" long, wire wrap  
**W3** .425" long, wire wrap  
**W4** 1.062" long, wire wrap  
**Z3** Quick connect

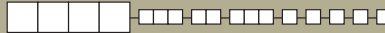


[www.ck-components.com](http://www.ck-components.com)



# 8020 Series Snap-acting Momentary Pushbutton Switches

## SWITCH FUNCTION



Pushbutton

A

| NO. POLES | MODEL NO. | UL/CSA* MODEL NO. | SWITCH FUNCTION              |        | CONNECTED TERMINALS          |        | SCHEMATIC |
|-----------|-----------|-------------------|------------------------------|--------|------------------------------|--------|-----------|
|           |           |                   | POS. 1                       | POS. 2 | POS. 1                       | POS. 2 |           |
|           |           |                   |                              |        |                              |        |           |
|           |           |                   | C&K marking on opposite side |        | C&K marking on opposite side |        |           |
| SP        | 8121      | U811              | ON                           | MOM.   | 1-3                          | 1-2    |           |
|           | 8125      |                   | ON                           | MOM.   |                              |        |           |
| SPDT      |           |                   |                              |        |                              |        |           |

### SPDT

Part number shown: 8121SHZGE

Terminal Nos. For Reference Only

|      |      |      |    |      |         |         |  |
|------|------|------|----|------|---------|---------|--|
| DP   | 8221 | U821 | ON | MOM. | 1-3,4-6 | 1-2,4-5 |  |
|      | 8225 |      | ON | MOM. |         |         |  |
| DPDT |      |      |    |      |         |         |  |

### DPDT

Part number shown: 8221SHZGE

Terminal Nos. For Reference Only

|      |      |      |    |      |             |             |  |
|------|------|------|----|------|-------------|-------------|--|
| 3P   | 8321 | U831 | ON | MOM. | 1-3,4-6,7-9 | 1-2,4-5,7-8 |  |
|      | 8325 |      | ON | MOM. |             |             |  |
| 3PDT |      |      |    |      |             |             |  |

### 3PDT

Part number shown: 8321SHZGE

Terminal Nos. For Reference Only

MOM. = Momentary

\*U811 thru U841 model numbers 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.



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

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# 8020 Series Snap-acting Momentary Pushbutton Switches



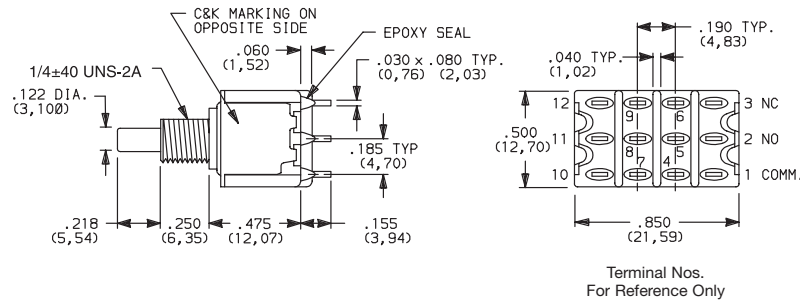
A

Pushbutton

## SWITCH FUNCTION

| NO. POLES | MODEL NO. | UL/CSA* MODEL NO. | SWITCH FUNCTION |        | CONNECTED TERMINALS |                   | SCHEMATIC   |
|-----------|-----------|-------------------|-----------------|--------|---------------------|-------------------|-------------|
|           |           |                   | POS. 1          | POS. 2 | POS. 1              | POS. 2            |             |
| 4P        | 8421      | U841              | ON              | MOM.   | 1-3,4-6,7-9,10-12   | 1-2,4-5,7-8,10-11 | <p>4PDT</p> |
|           | 8425      |                   | ON              | MOM.   |                     |                   |             |

### 4PDT



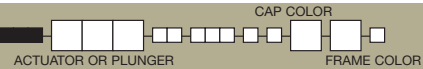
MOM. = Momentary

\* U811 thru U841 model numbers **C&K** 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

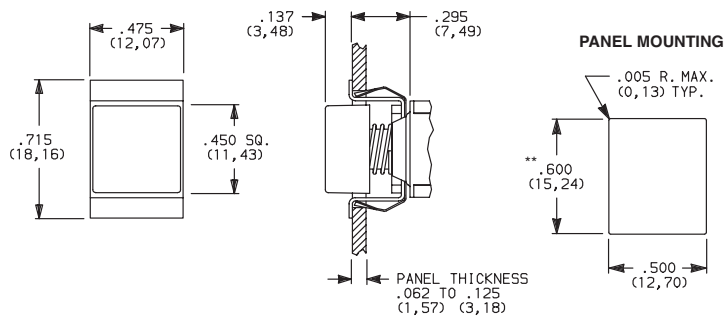


| OPTION CODE | CAP AND FRAME COLOR         |
|-------------|-----------------------------|
| 2           | BLACK                       |
| NONE        | No Frame Color (J80 option) |
| 1           | WHITE                       |
| 3           | RED                         |
| 4           | ORANGE  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

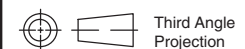
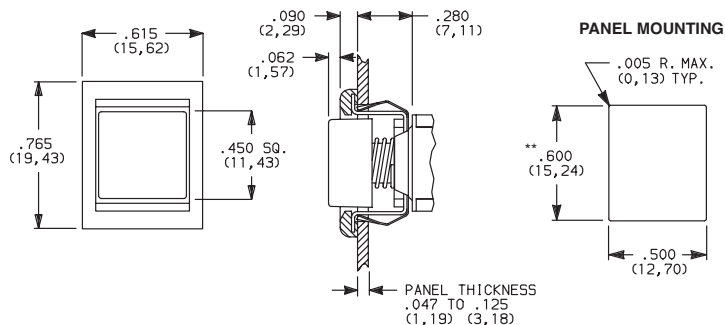
Other colors available, consult Customer Service Center. Cap and Frame Finish: matte.

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

### J80 SNAP-IN



### J81 SNAP-IN WITH FRAME



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





A

Pushbutton

# 8020 Series Snap-acting Momentary Pushbutton Switches

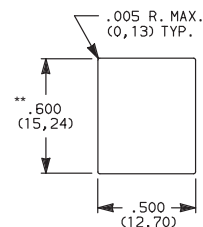
## ACTUATOR—SNAP-IN FRONT MOUNT



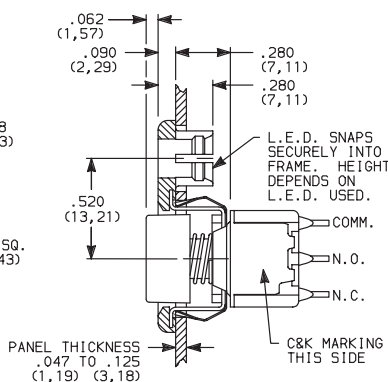
### J83 SNAP-IN WITH FRAME AND FLUSH CAP



#### PANEL MOUNTING



### J82 SNAP-IN WITH FRAME FOR LED



#### PANEL MOUNTING

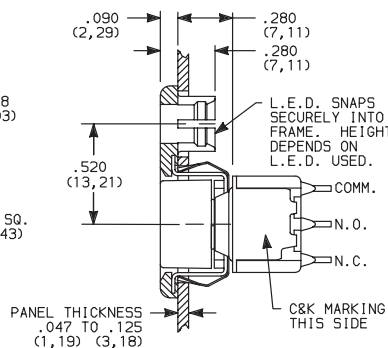
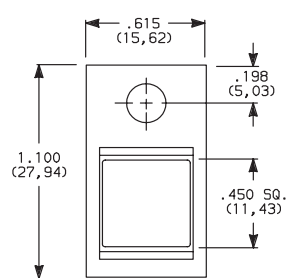


\* Increase this dim. to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

LED not included.

For LED information, see page A-45.

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



#### PANEL MOUNTING



\* 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                |
| 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.



Third Angle  
Projection

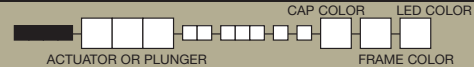


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

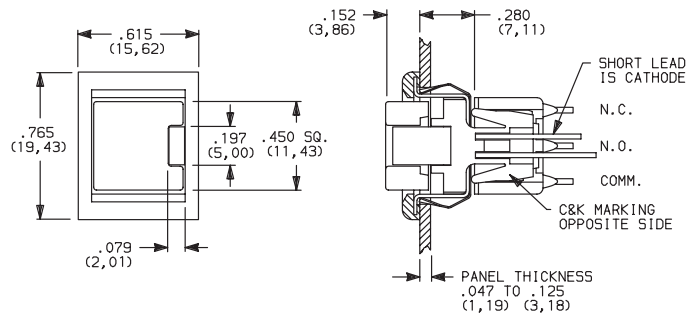
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# 8020 Series Snap-acting Momentary Pushbutton Switches

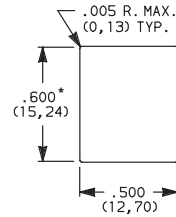
## ACTUATOR—SNAP-IN FRONT MOUNT



### J85 SNAP-IN WITH FRAME AND LED



### PANEL MOUNTING



\* 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.

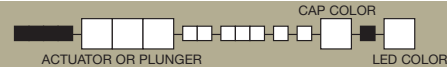
**NOTE:** Caps & frames available separately, see pages A-44 and A-45.

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

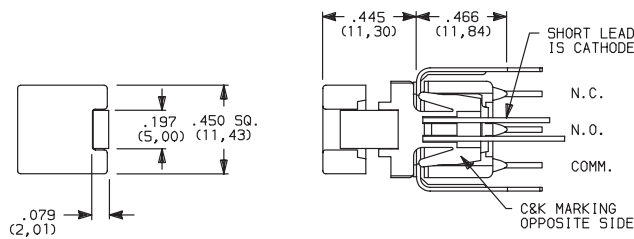
| OPTION CODE | LED COLOR |
|-------------|-----------|
| 3           | RED       |
| 5           | YELLOW    |
| 6           | GREEN     |

For LED information see page A-45.

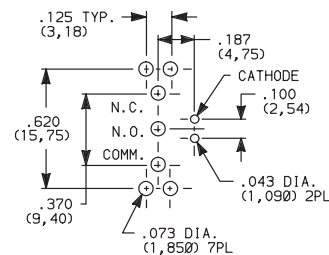
## ACTUATOR—PC MOUNT



### J95 PC WITH V-BRACKET AND LED



### PC MOUNTING



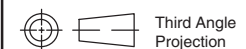
8121J95V3GE23  
SPST

| 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.

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



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

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# 8020 Series Snap-acting Momentary Pushbutton Switches

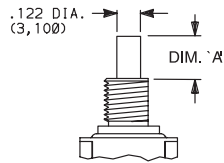
A

Pushbutton

## PLUNGER

ACTUATOR OR PLUNGER

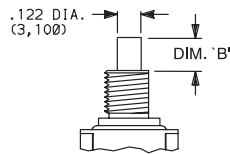
### S PLUNGER



**NONE** NO PLUNGER CHOICE REQUIRED  
(JXX ACTUATORS)

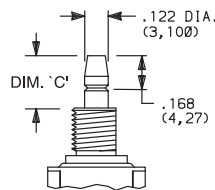
| AVAILABLE BUSHINGS | DIM. 'A'<br>FOR C, W-W4, Z & Z3<br>TERMINATIONS | DIM. 'A'<br>FOR A, A2, A3, A4, A6,<br>AV-A3, R & R2<br>TERMINATIONS | DIM. 'A'<br>FOR V3-V61<br>TERMINATIONS |
|--------------------|-------------------------------------------------|---------------------------------------------------------------------|----------------------------------------|
| 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



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

### M SNAP-FITTING PLUNGER



| AVAILABLE BUSHINGS | DIM. 'C'<br>FOR C, W-W4, Z & Z3<br>TERMINATIONS | DIM. 'C'<br>FOR A, A2, A3, A4, A6,<br>AV-A3, R & R2<br>TERMINATIONS | DIM. 'C'<br>FOR V3-V61<br>TERMINATIONS |
|--------------------|-------------------------------------------------|---------------------------------------------------------------------|----------------------------------------|
| D, D9              | .297 (7,54)                                     | .281 (7,14)                                                         | .277 (7,04)                            |
| H, H9              | .267 (6,78)                                     | .251 (6,38)                                                         | .247 (6,27)                            |
| Y, Y9              | .259 (6,58)                                     | .243 (6,17)                                                         | .239 (6,07)                            |
| Y3                 | (6,78)                                          | (6,37)                                                              | (6,27)                                 |
| Y4                 | .259 (6,58)                                     | .243 (6,17)                                                         | .239 (6,07)                            |
| D2, D8             | N/A                                             | .273 (6,93)                                                         | .269 (6,83)                            |
| D3                 | N/A                                             | .361 (9,17)                                                         | .357 (9,07)                            |

N/A = NOT AVAILABLE

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

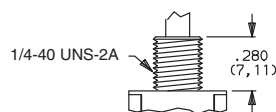
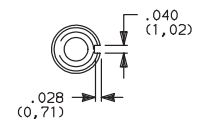
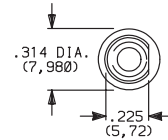
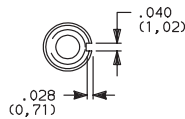
## BUSHING

**NONE** NO BUSHING  
CHOICE REQUIRED  
(JXX ACTUATORS)

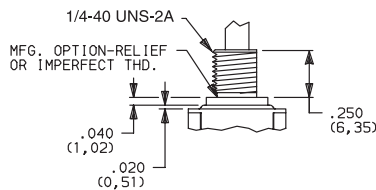
**D** .280" HIGH THREADED, KEYWAY  
**D9** .280" HIGH UNTHREADED,  
KEYWAY

**H** .250" HIGH THREADED, FLAT  
**H9** .250" HIGH UNTHREADED, FLAT

**Y** .350" HIGH THREADED, KEYWAY  
**Y9** .350" HIGH UNTHREADED, KEYWAY

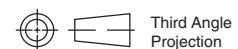
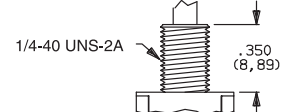


D9 bushing standard with A-A6,  
R, R2 AV-A3 terminations.



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.**



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

**C&K**

# 8020 Series Snap-acting Momentary Pushbutton Switches

## BUSHING

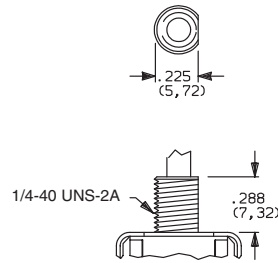
**Y3** 6.35mm THREADED, KEYWAY



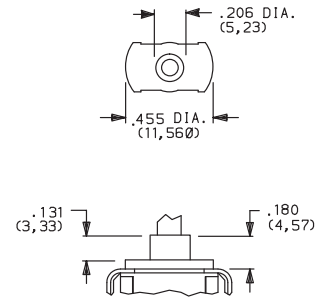
**Y4** .378" HIGH THREADED, FLAT



**D2** .288" HIGH THREADED, FLAT  
**D8** .288" HIGH UNTHREADED, FLAT



**D3** .180" HIGH UNTHREADED



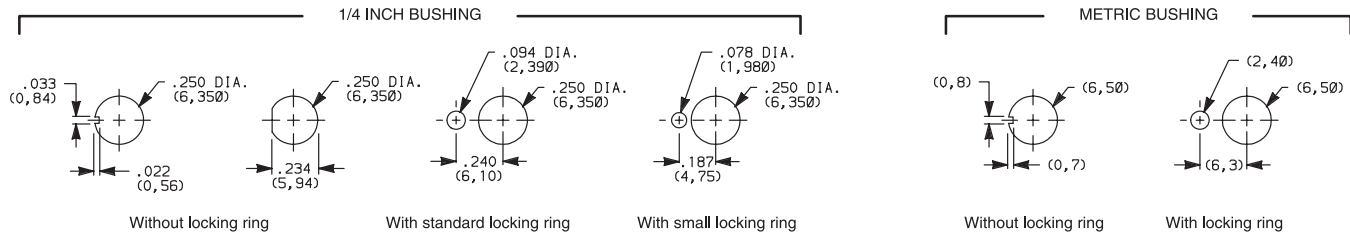
Y3 & Y4 bushings not available on single pole models with A3-A6, R, R2 terminations. Will withstand 12 in./lbs. of torque with no distortion.

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

D3 bushing available with A, A2, A3, AV, AV2, AV3 and V2-V61 terminations only.

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

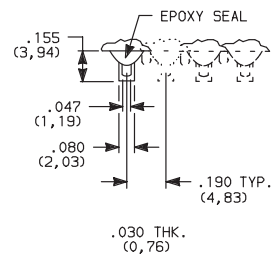
## PANEL MOUNTING



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

## TERMINATIONS

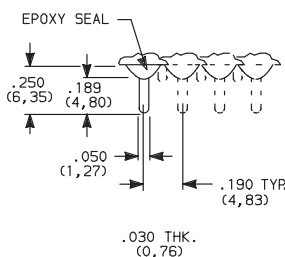
**Z** SOLDER LUG



**SPDT thru 4PDT**

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

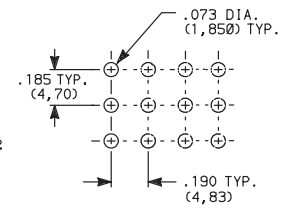
**C** PC THRU-HOLE



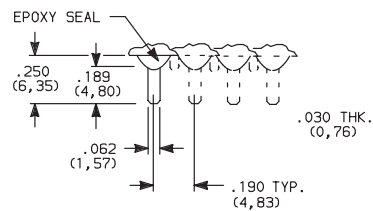
**SPDT thru 4PDT**

Not available with J95 actuator option.

**PC MOUNTING**



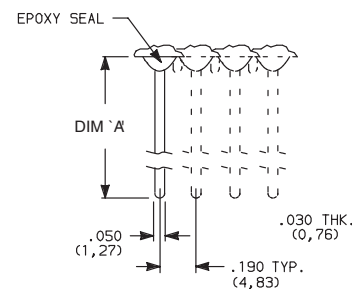
**Z3** QUICK CONNECT



**SPDT thru 4PDT**

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

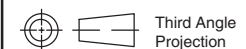
**W W1, W3, W4** WIRE WRAP



**SPDT thru 4PDT**

Not available with J95 actuator option.

| OPTION CODE | DIM 'A'       |
|-------------|---------------|
| <b>W</b>    | .750 (19,05)  |
| <b>W1</b>   | .964 (24,49)  |
| <b>W3</b>   | .425 (10,80)  |
| <b>W4</b>   | 1.062 (26,97) |



Third Angle Projection

**C&K**

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

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**A**

Pushbutton

**A****Pushbutton**

# 8020 Series Snap-acting Momentary Pushbutton Switches

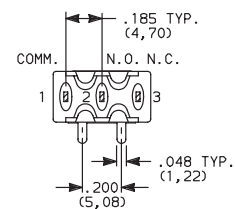
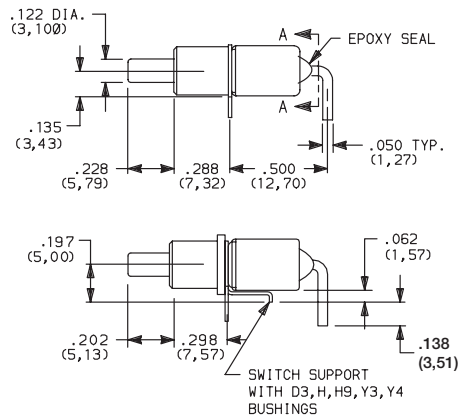
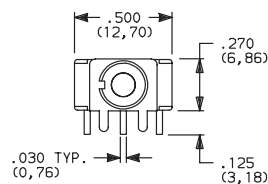
## TERMINATIONS



### **A** RIGHT ANGLE, PC THRU-HOLE



**8121SD9AGE  
SPDT**

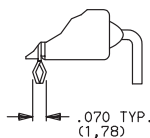
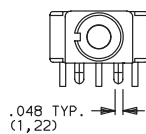


**SECTION A-A**

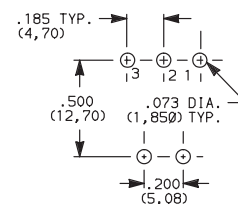
Terminal Nos.  
For Reference Only.

Part Number 8121SH9AGE

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



#### PC MOUNTING

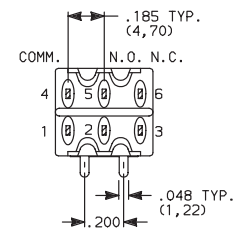
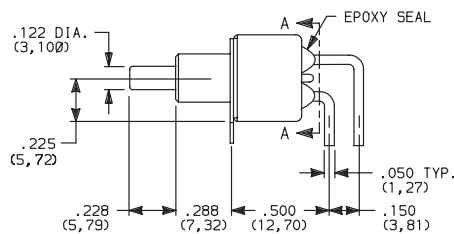
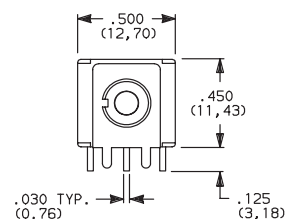


Not available with JXX actuators and I seal.  
Terminal bend radii and lead-in manufacturing option.

### **A** RIGHT ANGLE, PC THRU-HOLE

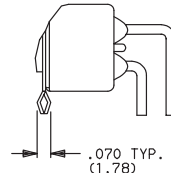
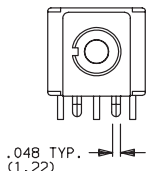


**8221SD9AGE  
DPDT**

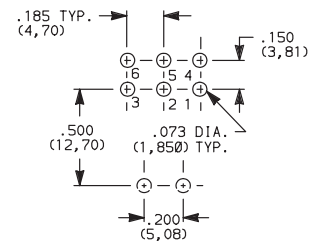


**SECTION A-A**

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



#### PC MOUNTING



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



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

A

## Pushbutton



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

**PC MOUNTING**

Top View Dimensions:

- Overall Width: .500 (12,70)
- Pin Spacing: .270 (6,86)
- Pin Diameter: .122 DIA. (3,100)
- Pin Length: .030 TYP. (0,76)
- Pin Spacing (Bottom): .125 (3,18)

Side View Dimensions:

- Pin Diameter: .122 DIA. (3,100)
- Pin Length: .135 (3,43)
- Pin Spacing: .228 (5,79)
- Pin Length: .288 (7,32)
- Pin Spacing: .500 (12,70)
- Pin Length: .050 TYP. (1,27)

Detail View Dimensions:

- Pin Spacing: .156 TYP. (3,96)
- Pin Length: .046 TYP. (1,17)
- Pin Spacing: .200 (5,08)
- Pin Length: .073 DIA. (1,850) TYP.
- Pin Spacing: .200 (5,08)

PC MOUNTING Dimensions:

- Pin Spacing: .156 TYP. (3,96)
- Pin Length: .500 (12,70)
- Pin Spacing: .073 DIA. (1,850) TYP.
- Pin Length: .200 (5,08)

Bottom View Dimensions:

- Pin Spacing: .197 (5,00)
- Pin Length: .062 (1,57)
- Pin Spacing: .202 (5,13)
- Pin Length: .298 (7,57)
- Pin Spacing: .138 (3,51)

SWITCH SUPPORT WITH D3,H,H9,Y3,Y4 BUSHINGS

Part Number 8121SH9A2GE

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

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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**A****Pushbutton**

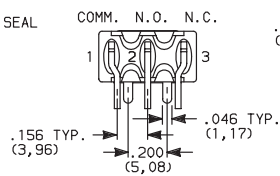
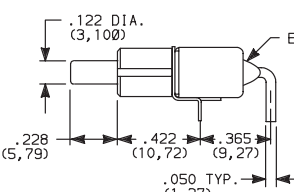
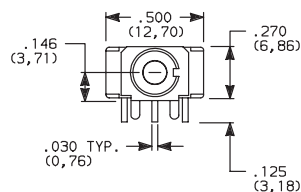
# 8020 Series Snap-acting Momentary Pushbutton Switches

## TERMINATIONS

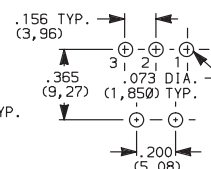
### A6 RIGHT ANGLE, PC THRU-HOLE



**8121SD9A6GE**  
**SPDT**



#### PC MOUNTING



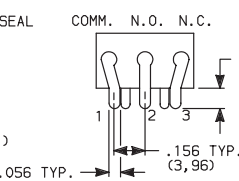
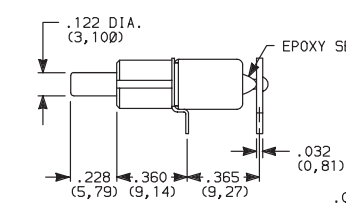
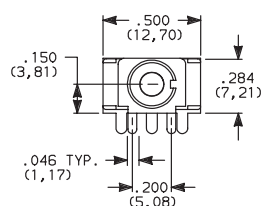
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings and I seal.  
Terminal bend radii and lead-in manufacturing option.

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.

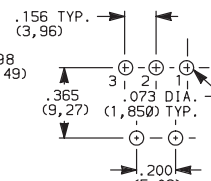
### R RIGHT ANGLE WITH PCB



**8121SD9RGE**  
**SPDT**



#### PC MOUNTING

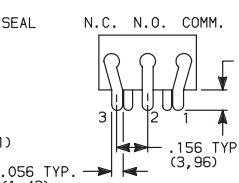
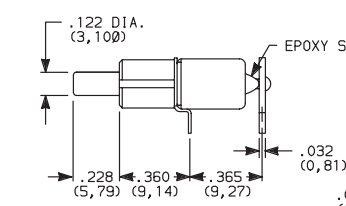
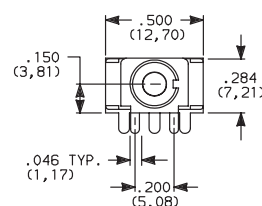


Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option.  
R termination not UL/CSA approved.

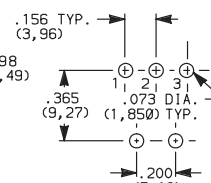
### R2 RIGHT ANGLE WITH PCB, REVERSED TERMINALS



**8121SD9R2GE**  
**SPDT**



#### PC MOUNTING



Reversed terminals

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



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

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# 8020 Series Snap-acting Momentary Pushbutton Switches

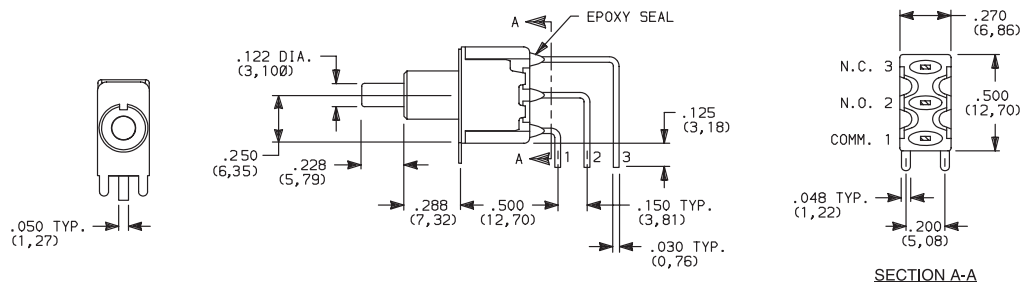
## TERMINATIONS



A

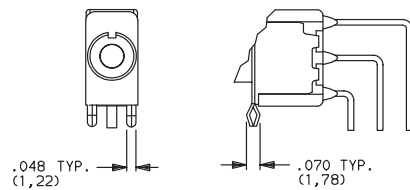
Pushbutton

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

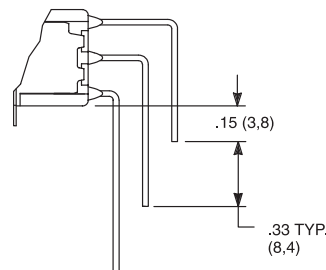


**8121SD9AV2GE  
SPDT**

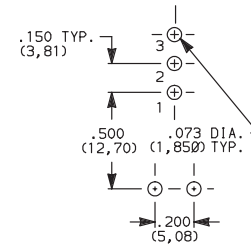
**AV3** VERTICAL RIGHT ANGLE, SNAP-IN,,  
PC THRU-HOLE, .150" PITCH



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

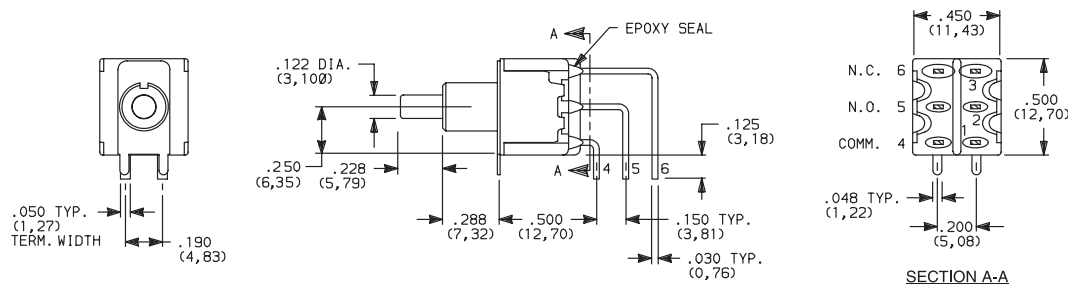


PC MOUNTING



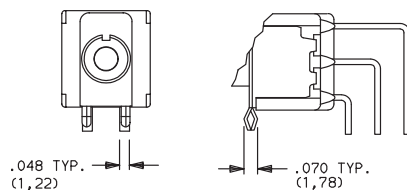
Not available with JXX actuators and I seal.  
Terminal bend radii and lead-in manufacturing option.

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

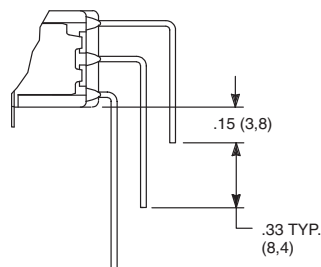


**8221SD9AV2GE  
DPDT**

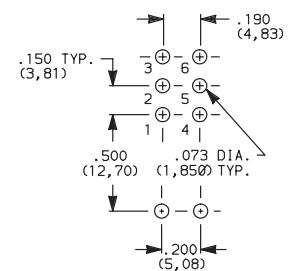
**AV3** VERTICAL RIGHT ANGLE, SNAP-IN,  
PC THRU-HOLE, .150" PITCH



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



PC MOUNTING



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



Third Angle  
Projection

**C&K**

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

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A

Pushbutton

# 8020 Series Snap-acting Momentary Pushbutton Switches

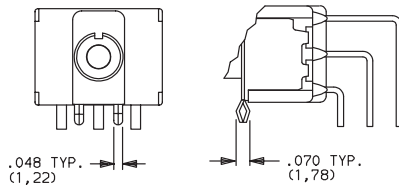
## TERMINATIONS

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



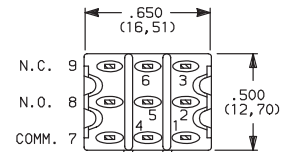
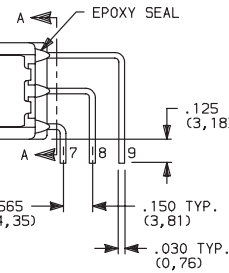
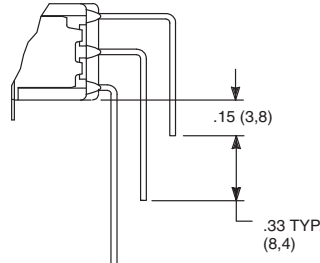
8321SD9AV2GE  
3PDT

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



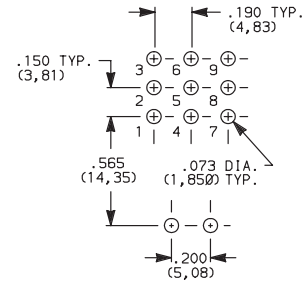
Not available with JXX actuators and I seal.  
Terminal bend radii and lead-in manufacturing option.

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



SECTION A-A

PC MOUNTING

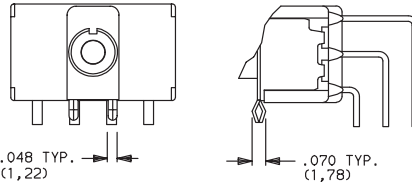


### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



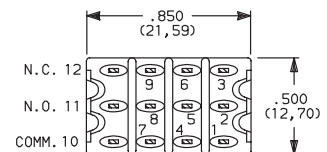
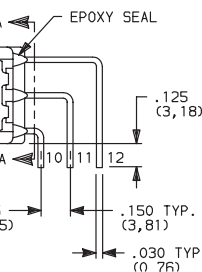
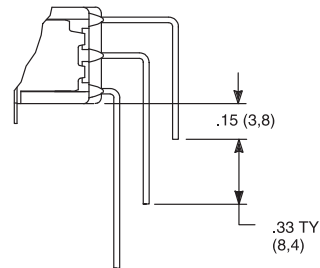
8421SD9AV2GE  
4PDT

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



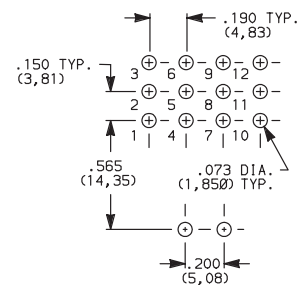
Not available with JXX actuators and I seal.  
Terminal bend radii and lead-in manufacturing option.

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



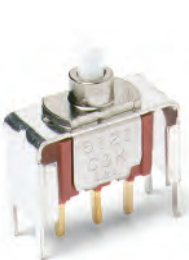
SECTION A-A

PC MOUNTING



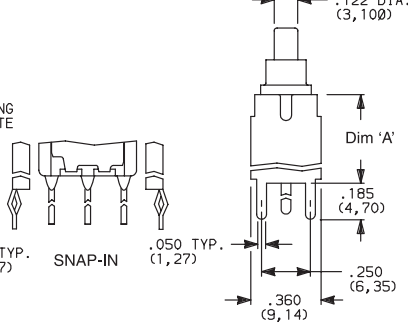
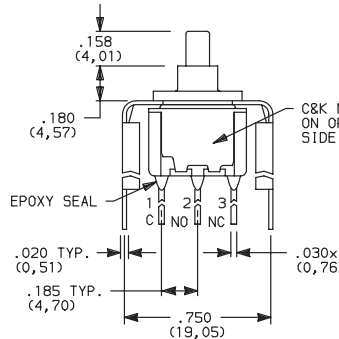
### V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET

### V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN



8121SD3\_GE  
SPDT

Not available with JXX actuators and I seal.



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



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

**C&K**

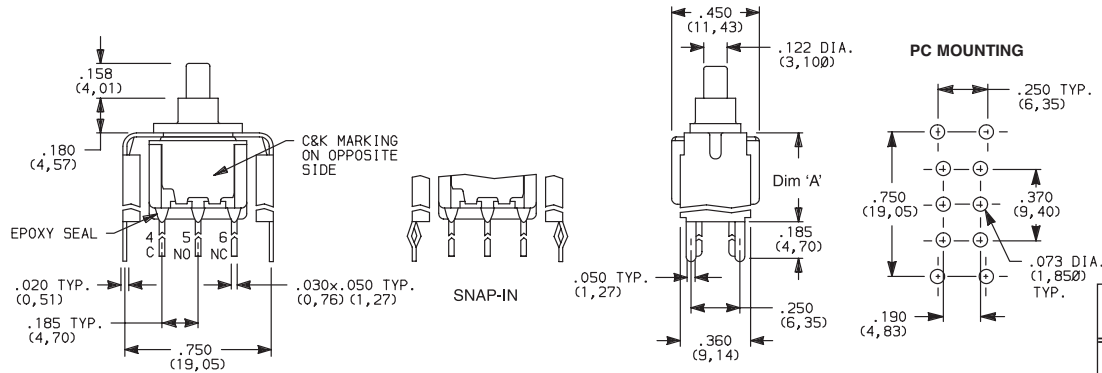
# 8020 Series Snap-acting Momentary Pushbutton Switches

## TERMINATIONS



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

**V61** VERTICAL MOUNT, V-BRACKET, SNAP-IN



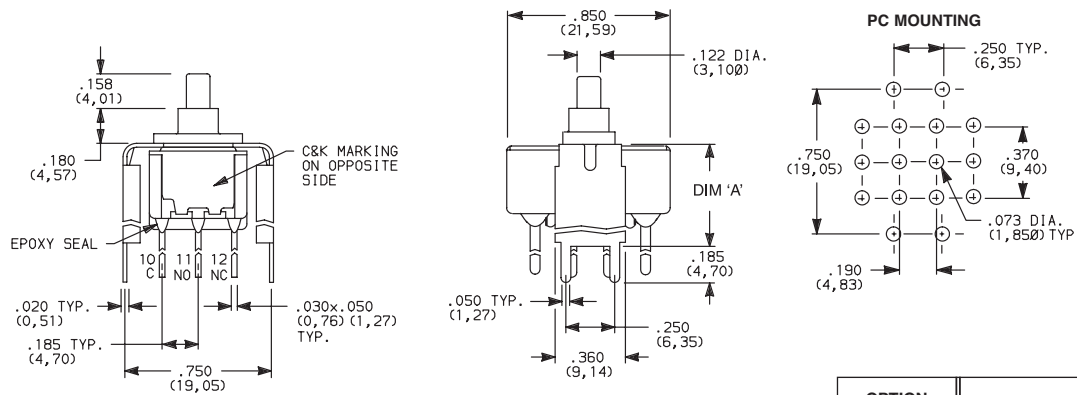
Not available with JXX actuators and I seal.

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



Not available with JXX actuators and I seal.

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



Not available with JXX actuators and I seal.



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

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A

Pushbutton



A

Pushbutton

# 8020 Series Snap-acting Momentary Pushbutton Switches

## TERMINATIONS

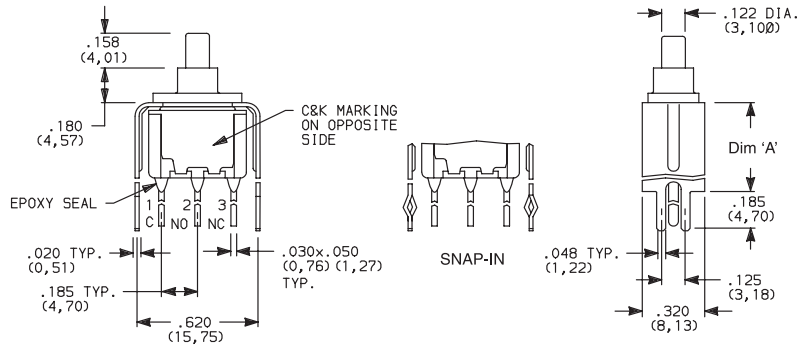


**V3, V4, V9** VERTICAL MOUNT, V-BRACKET

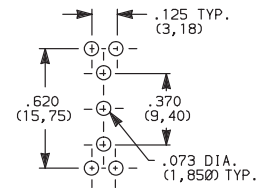
**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



8121SD3\_GE  
SPDT



### PC MOUNTING



| OPTION CODE    | DIM 'A'       |
|----------------|---------------|
| <b>V3, V31</b> | .460 (11,68)  |
| <b>V4</b>      | .630 (16,00)  |
| <b>V9</b>      | 1.150 (29,21) |

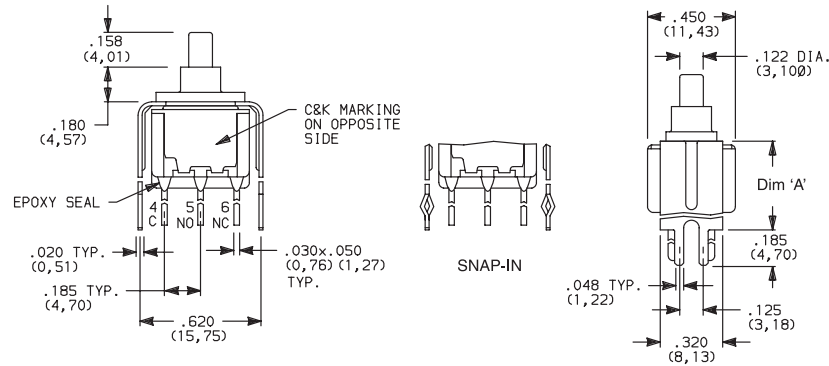
Not available with J8X actuators and I seal.

**V3, V4, V9** VERTICAL MOUNT, V-BRACKET

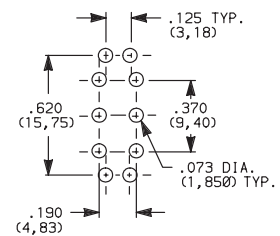
**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



8221SD3\_GE  
DPDT



### PC MOUNTING



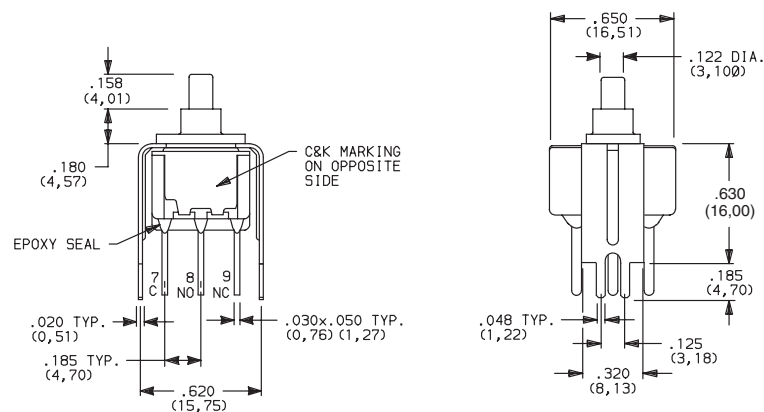
| OPTION CODE    | DIM 'A'       |
|----------------|---------------|
| <b>V3, V31</b> | .460 (11,68)  |
| <b>V4</b>      | .630 (16,00)  |
| <b>V9</b>      | 1.150 (29,21) |

Not available with J8X actuators and I seal.

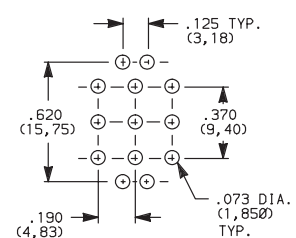
**V4, V9** VERTICAL MOUNT, V-BRACKET



8321SD3V4GE  
3PDT



### PC MOUNTING



| OPTION CODE | DIM 'A'       |
|-------------|---------------|
| <b>V4</b>   | .630 (16,00)  |
| <b>V9</b>   | 1.150 (29,21) |

Not available with JXX actuators and I seal.



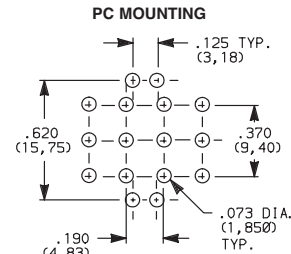
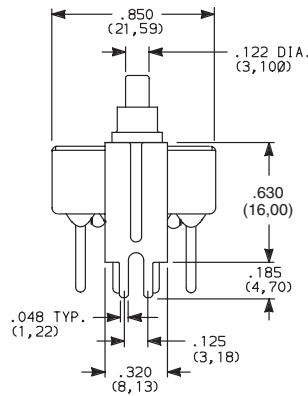
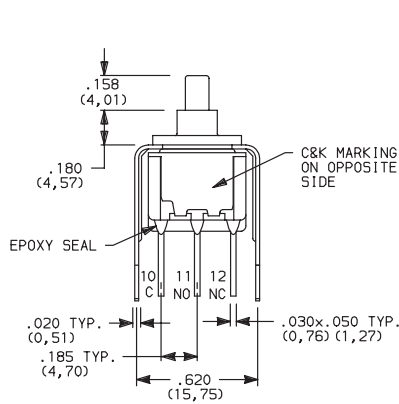
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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# 8020 Series Snap-acting Momentary Pushbutton Switches

## TERMINATIONS

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



**8421SD3V4GE  
4PDT**

| OPTION CODE | DIM 'A'       |
|-------------|---------------|
| <b>V4</b>   | .630 (16,00)  |
| <b>V9</b>   | 1.150 (29,21) |

Not available with JXX actuators and I seal.

## CONTACT MATERIAL

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

\* 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 with all options (except R, R2 terminations) when ordered with mandatory G or R contact material.

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

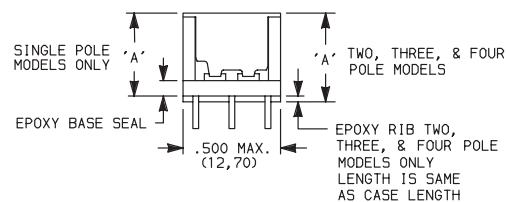
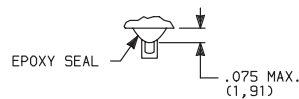
G or R contact material must be ordered with 8X21, U8X1 models.

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

## SEAL

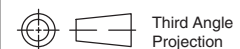
**E** EPOXY SEAL

**I** 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.



Third Angle  
Projection

**C&K**

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

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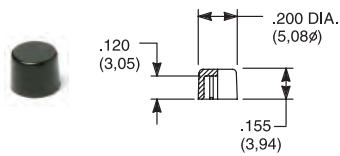
A

Pushbutton

# 8020 Series Snap-acting Momentary Pushbutton Switches

## AVAILABLE HARDWARE

Cap

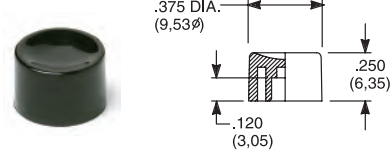


## PART NO.

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

Material: Nylon  
Finish: Gloss

Cap

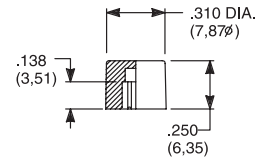


## PART NO.

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

Material: Nylon  
Finish: Gloss

Cap

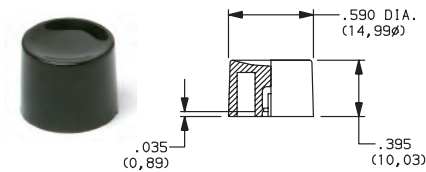


## PART NO.

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

Material: Nylon  
Finish: Gloss

Cap, Snap-fitting plunger

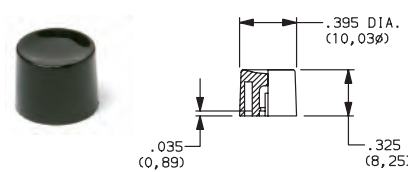


## PART NO.

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

Material: Nylon  
Finish: Gloss

Cap, Snap-fitting plunger

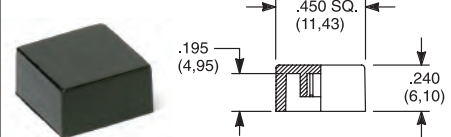


## PART NO.

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

Material: Nylon  
Finish: Gloss

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



## PART NO.

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

Material: Nylon  
Finish: Gloss

## PART NO.

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

Material: Nylon  
Finish: Matte

Frame



## PART NO.

615602263 BLACK

Material: Nylon  
Finish: Matte

Frame

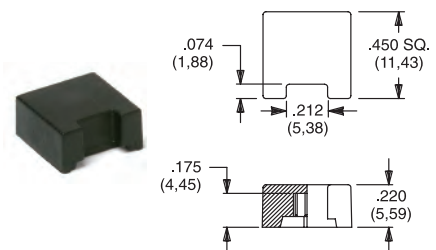


## PART NO.

613302263 BLACK

Material: Nylon  
Finish: Matte

Cap, J85 &amp; J95 options only



## PART NO.

459701000 WHITE  
459702000 BLACK  
459703000 RED  
459704000 ORANGE  
459705000 YELLOW  
459706000 GREEN  
459707000 BLUE  
459709000 GRAY

Material: Nylon  
Finish: Gloss

## PART NO.

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

Material: Nylon  
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.



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

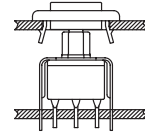
**C&K**

# 8020 Series Snap-acting Momentary Pushbutton Switches

## 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.

### TYPICAL APPLICATION



.047" (1,19) PANEL THK.

**PART NO.**  
**432502263**

.062" (1,57) PANEL THK.

**PART NO.**  
**432602263**

.090" (2,29) PANEL THK.

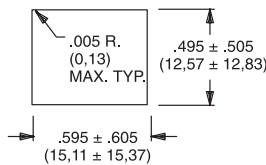
**PART NO.**  
**432702263**

.125" (3,18) PANEL THK.

**PART NO.**  
**432802263** BLACK

### PANEL MOUNTING

For part numbers  
4325xxxxx, 4326xxxxx

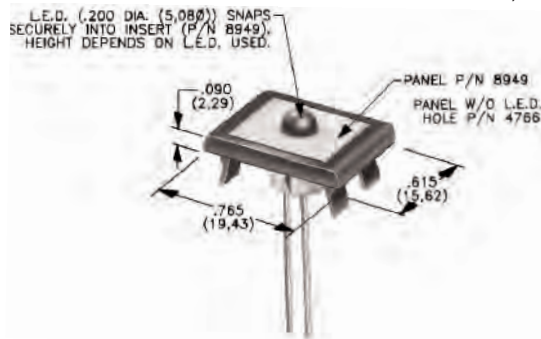


For part numbers  
4327xxxxx, 4328xxxxx



### 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

**PART NO.**  
**894902000**

BLANK PANEL INSERT  
WITHOUT HOLE FOR LED

**PART NO.**  
**476602000** BLACK

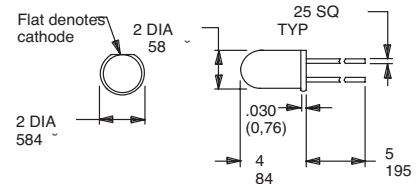
Special colors, custom markings available, consult Customer Service Center.

### LED INFORMATION

SWITCHES WITH LED SUPPLIED: J85, J95 OPTIONS:

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:

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



Suggested LED for J82 & J84 options  
Dimensions for reference only

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

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



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

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