

C&K 8020 Series Snap-acting Momentary Pushbutton Switches

Features/Benefits

- **Positive tactile feel**
- **Multi-positions available**
- **Wide variety of termination options**

Typical Applications

- **Instrumentation**
- **Computer peripherals**
- **Telecommunications equipment**



Models Available



A

Pushbutton

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-make contacts. Multi-pole contacts do not make and break simultaneously. See page A-37 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: 10⁹ Ω 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: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Materials

CASE: Glass filled nylon 6/6 or diallyl phthalate (DAP), flame retardant (UL 94V-0).

PLUNGER: Glass filled nylon or glass filled polyester (PBT) (UL 94V-0).

CAP & FRAME: Nylon, black, standard.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, tin plated.

N.O. & N.C. CONTACTS: 8X21, U8X1 MODELS: G contact material: Coin silver, with gold plate over nickel plate. See page A-37 for additional contact materials.

8X25 MODELS: B contact material: Copper alloy, with gold plate over nickel plate. See page A-37 for additional contact materials.

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

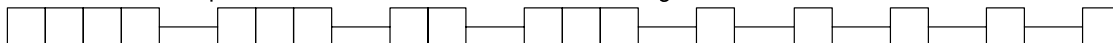
TERMINAL SEAL: Epoxy.

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-24 thru A-37. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.



Switch Function

8121 (STD.) SPDT On-Mom. 1 Amp

8125 (STD.) SPDT On-Mom. 0.4VA

8221 (STD.) DPDT On-Mom. 1 Amp

8225 DPDT On-Mom. 0.4VA

8321 3PDT On-Mom. 1 Amp

8325 3PDT On-Mom. 0.4VA

8421 4PDT On-Mom. 1 Amp

8425 4PDT On-Mom. 0.4VA

Note: UL/CSA models available, see page A-24.

Actuator or Plunger

S (STD.) Plunger

NONE Snap-in

J80 Snap-in

J81 Snap-in w/frame

J82 Snap-in w/frame for LED

J83 Snap-in w/frame &

flush cap

J84 Snap-in w/frame for LED,

flush cap

J85 Snap-in w/frame & LED

J95 PC w/V-bracket & LED

L Plunger

M Snap-fitting plunger

Bushing

D9 (STD.) .280" high, keyway

H (STD.) .250" high, flat

NONE No bushing choice required

D .280" high, keyway

D2 .288" high, flat

D3 .180" high

D8 .288" high, flat

H9 .250" high, flat, hi torque

Y .350" high, keyway

Y3 6.35mm high, keyway, hi torque

Y4 .378" high, flat, hi torque

Y9 .350" high, keyway

Terminations

A (STD.) Right angle, PC thru-hole

AV2 (STD.) Vertical right angle, PC thru-hole

C (STD.) PC Thru-hole

Z (STD.) Solder lug

A2 Right angle, PC thru-hole

A3 Right angle, snap-in, PC thru-hole

A4 Right angle, PC thru-hole, reversed terminals

A6 Right angle, PC thru-hole

AV Vertical right angle, PC thru-hole

AV1 Vertical right angle, PC thru-hole

AV3 Vertical right angle, snap-in, PC thru-hole

R Right angle with PCB

R2 Right angle with PCB, reversed terminals

Contact Material

B (STD.) Gold

G (STD.) Gold over silver

K Gold, tin-lead

L Gold over silver, tin-lead

Seal

E (STD.) Epoxy

I Epoxy potted base

Cap Color

2 (STD.) Black

NONE Models

without caps

1 White

3 Red

4 Orange

5 Yellow

6 Green

7 Blue

9 Gray

Frame Color

2 (STD.) Black

NONE Models

without frame

1 White

3 Red

5 Yellow

6 Green

9 Gray

LED Color

3 (STD.) Red

NONE Models without LED

5 Yellow

6 Green

V2 .555" high, V-bracket

V3 .460" high, V-bracket

V4 .630" high, V-bracket

V6 .460" high, V-bracket

V7 .630" high, V-bracket

V8 .953" high, V-bracket

V9 1.150" high, V-bracket

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



ITT Industries

Cannon

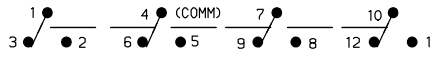
Pushbutton

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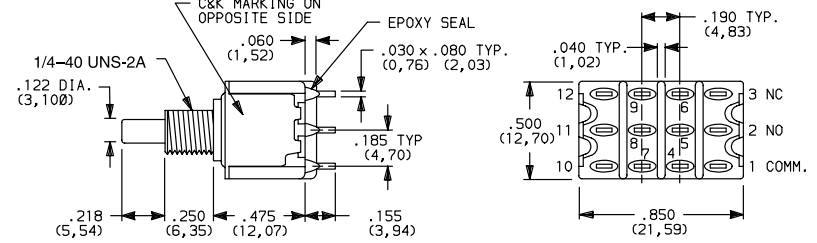
C&K 8020 Series Snap-acting Momentary Pushbutton Switches

SWITCH FUNCTION



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		
4P	8421	U841	ON	MOM.	1-3,4-6,7-9,10-12	1-2,4-5,7-8,10-11	
	8425		ON	MOM.			

4PDT



Part number shown: 8421SHZGE

Terminal Nos. For Reference Only

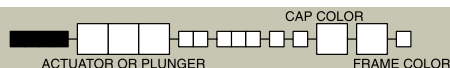
MOM. = Momentary

* U811 thru U841 model numbers   with all options (except R, R2 terminations) when ordered with G or L contact material.

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

8X21 and U8X1 models must be ordered with G or L contact material.

ACTUATOR—SNAP-IN FRONT MOUNT

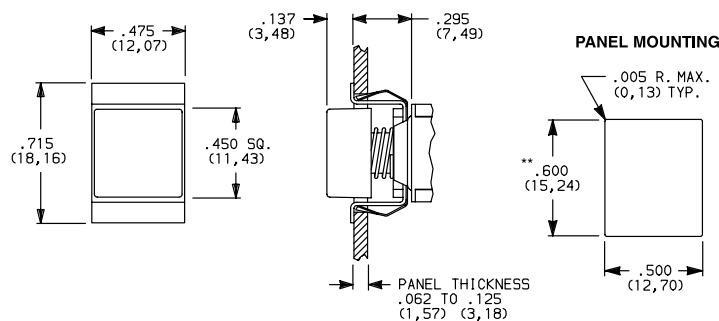


OPTION CODE	CAP AND FRAME COLOR
2	(STD.) BLACK
NONE	No Frame Color (J80 option)
1	WHITE
3	RED
4	ORANGE
5	YELLOW
6	GREEN
7	BLUE
9	GRAY

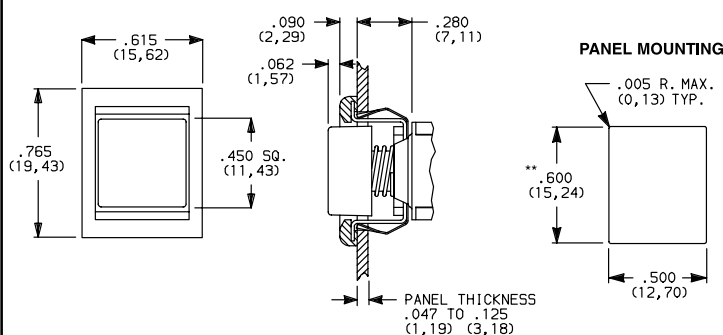
Other colors available, consult Customer Service Center. Cap and Frame Finish: matte.

NOTE: Caps & frames available separately, see pages A-38 and A-39.

J80 SNAP-IN



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.

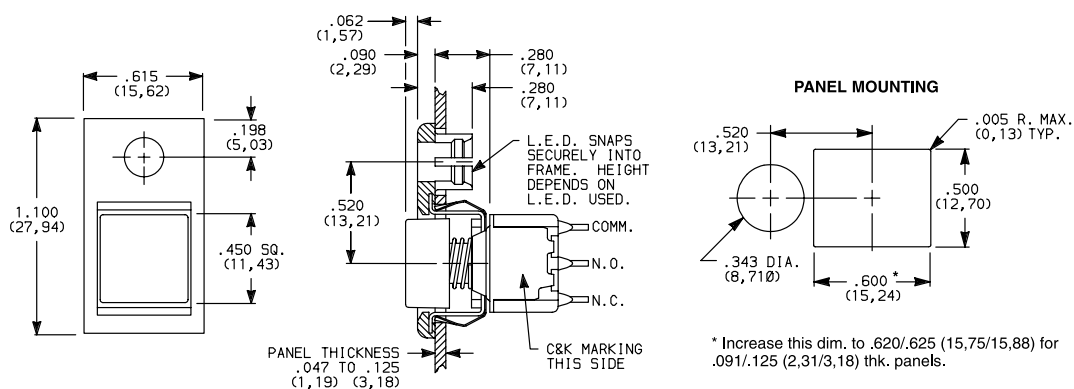
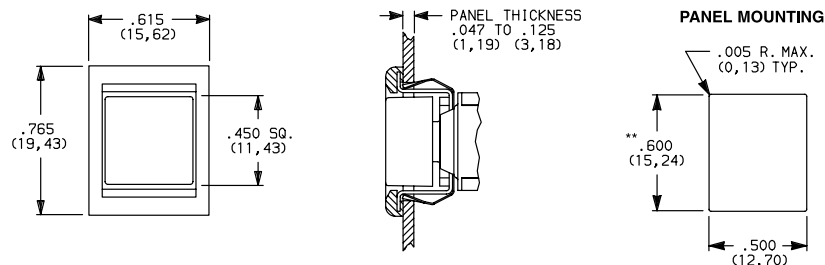


Dimensions are shown: IN (mm)
Dimensions subject to change

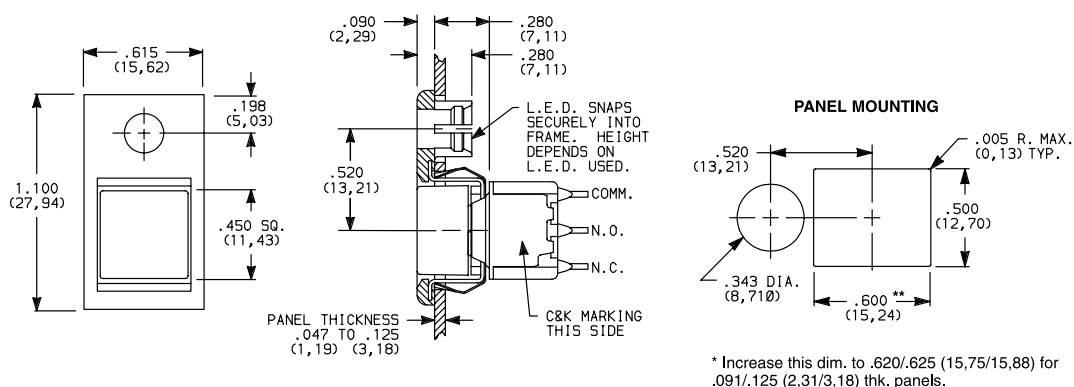
Pushbutton



ACTUATOR OR PLUNGER CAP COLOR FRAME COLOR



J84 SNAP-IN WITH FRAME FOR LED, FLUSH CAP



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

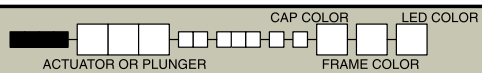


Third Angle Projection

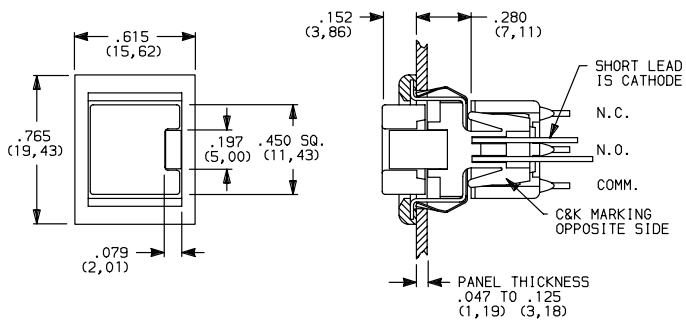
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C&K 8020 Series Snap-acting Momentary Pushbutton Switches

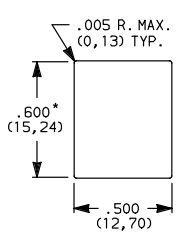
ACTUATOR—SNAP-IN FRONT MOUNT



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-39.

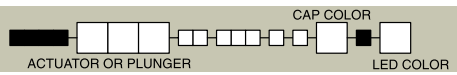
NOTE: Caps & frames available separately, see pages A-38 and A-39.

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

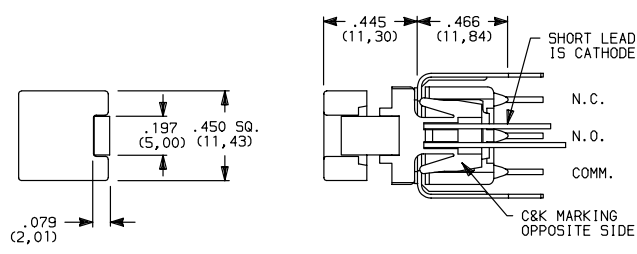
OPTION CODE	LED COLOR
3	(STD.) RED
5	YELLOW
6	GREEN

For LED information, see page A-39.

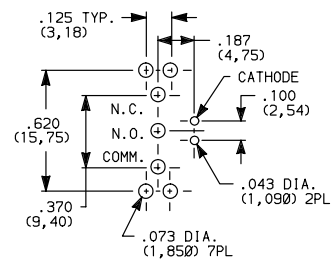
ACTUATOR—PC MOUNT



J95 PC WITH V-BRACKET AND LED



PC MOUNTING



8121J95V3GE23
SPST

OPTION CODE	CAP COLOR
2	(STD.) BLACK
1	WHITE
3	RED
4	ORANGE
5	YELLOW
6	GREEN
7	BLUE
9	GRAY

OPTION CODE	LED COLOR
3	(STD.) RED
5	YELLOW
6	GREEN

For LED information, see page A-39.

NOTE: Caps available separately, see page A-38. Available with V3 terminations and SPDT models only.



Dimensions are shown: IN (mm)
Dimensions subject to change

C&K 8020 Series Snap-acting Momentary Pushbutton Switches

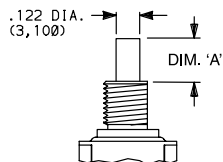


Pushbutton

PLUNGER

ACTUATOR OR PLUNGER

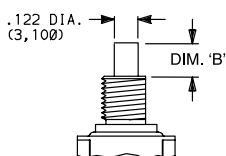
S (STD.) PLUNGER



NONE NO PLUNGER CHOICE REQUIRED
(JXX ACTUATORS)

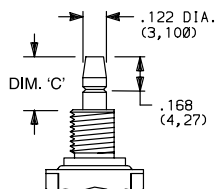
AVAILABLE BUSHINGS	DIM. 'A' FOR C, W-W4, Z & Z3 TERMINATIONS	DIM. 'A' FOR A, A2, A3, A4, A6, AV1-AV4, AW-AW4, R & R2 TERMINATIONS	DIM. 'A' FOR V3-V61 TERMINATIONS
D, D9	.244 (6,20)	.228 (5,79)	.224 (5,69)
H, H9	.218 (5,54)	.202 (5,13)	.198 (5,03)
Y, Y9	.203 (5,16)	.187 (4,75)	.183 (4,65)
Y3	(5,54)	(5,13)	(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



AVAILABLE BUSHINGS	DIM. 'B' FOR C, W-W4, Z & Z3 TERMINATIONS	DIM. 'B' FOR A, A2, A3, A4, A6, AV1-AV4, AW-AW4, 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)

M SNAP-FITTING PLUNGER



AVAILABLE BUSHINGS	DIM. 'C' FOR C, W-W4, Z & Z3 TERMINATIONS	DIM. 'C' FOR A, A2, A3, A4, A6, AV1-AV4, AW-AW4, 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-38.

BUSHING

NONE NO BUSHING
CHOICE REQUIRED
(JXX ACTUATORS)

D .280" HIGH THREADED, KEYWAY

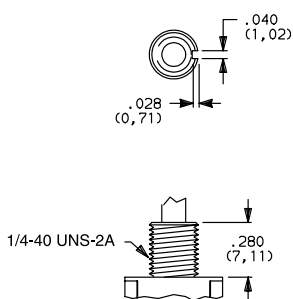
D9 (STD.) .280" HIGH UNTHREADED,
KEYWAY

H (STD.) .250" HIGH THREADED, FLAT

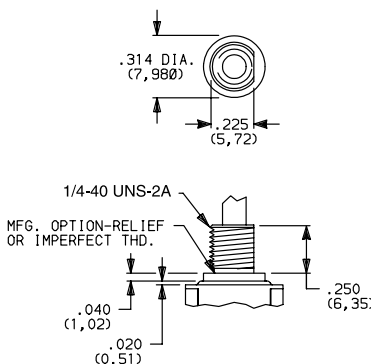
H9 .250" HIGH UNTHREADED, FLAT

Y .350" HIGH THREADED, KEYWAY

Y9 .350" HIGH UNTHREADED, KEYWAY

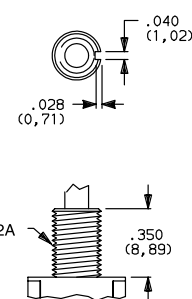


D9 bushing standard with A-A6,
R, R2 AV1-AV3 terminations.



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

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



Third Angle
Projection
Dimensions are shown: IN (mm)
Dimensions subject to change

C&K 8020 Series Snap-acting Momentary Pushbutton Switches

BUSHING

Y3 6.35mm THREADED, KEYWAY

(8,000)
(0,70)
(1,00)
(6,35)
(1,02)
(0,51)

Y4 .378" HIGH THREADED, FLAT

.314 DIA.
(7,980)
.225
(5,72)
.378
(9,60)
(6,35)
(1,02)
(0,51)

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

.225
(5,72)
.288
(7,32)
(6,35)

D3 .180" HIGH UNTHREADED

.206 DIA.
(5,23)
.455 DIA.
(11,560)
.180
(4,57)
(3,33)

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, AV1, 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

1/4 INCH BUSHING

Without locking ring With standard locking ring With small locking ring

METRIC BUSHING

Without locking ring With 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 N.

TERMINATIONS

Z (STD.) SOLDER LUG

SPDT thru 4PDT

Not available with J95 actuator, K or L contact material.

C (STD.) PC THRU-HOLE

SPDT thru 4PDT

Not available with J95 actuator option.

Z3 QUICK CONNECT

SPDT thru 4PDT

Not available with J95 actuator, K or L contact material. Mating quick connector available, order part number 530100000, page A-38.

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)

SPDT thru 4PDT

Not available with J95 actuator option.

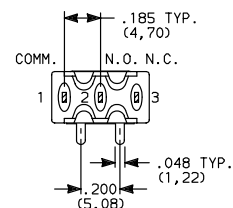
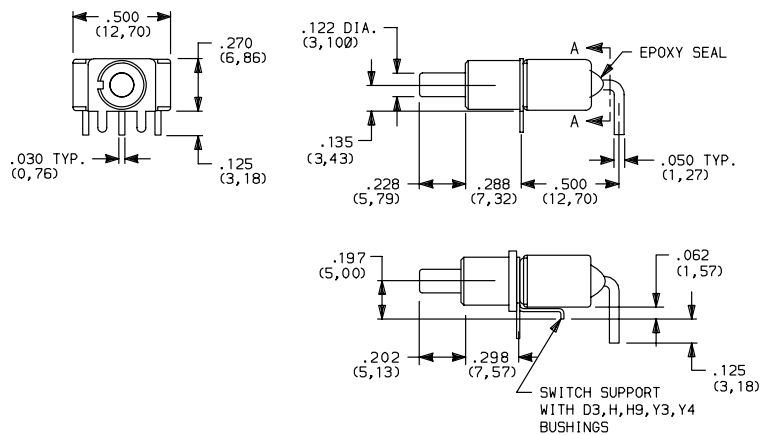


C&K 8020 Series Snap-acting Momentary Pushbutton Switches

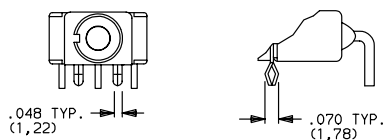
TERMINATIONS

A (STD.) RIGHT ANGLE, PC THRU-HOLE

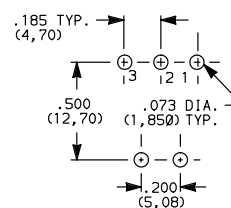
8121SD9AGE
SPDT



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



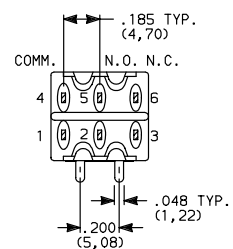
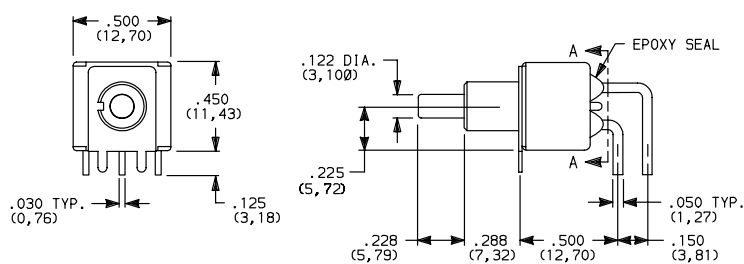
PC MOUNTING



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

A (STD.) RIGHT ANGLE, PC THRU-HOLE

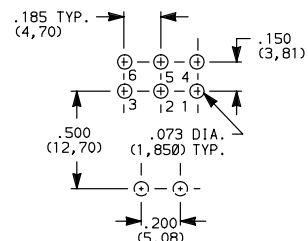
8221SD9AGE
DPDT



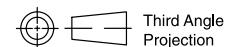
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



PC MOUNTING



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

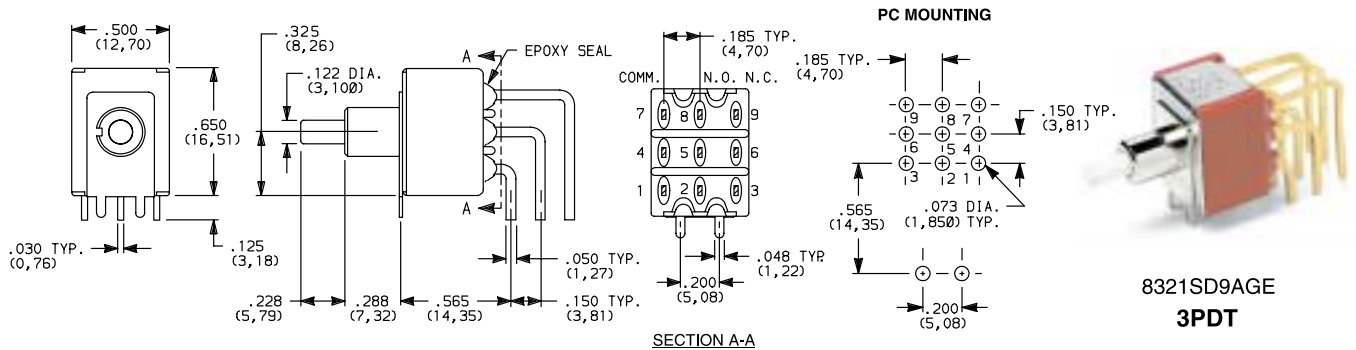


Dimensions are shown: IN (mm)
Dimensions subject to change

C&K 8020 Series Snap-acting Momentary Pushbutton Switches

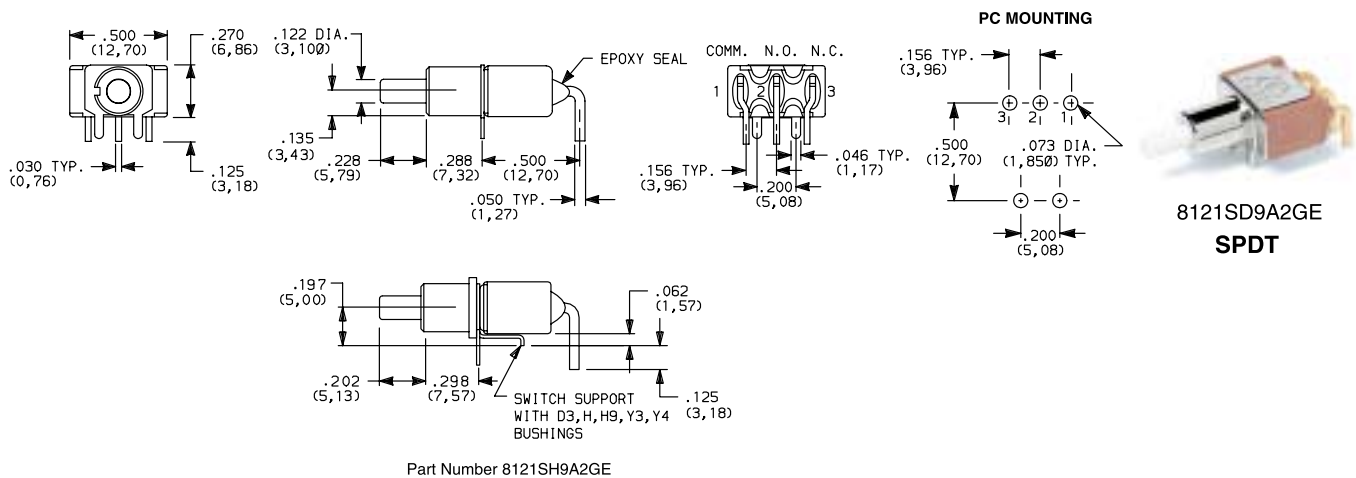
TERMINATIONS

A (STD.) RIGHT ANGLE, PC THRU-HOLE



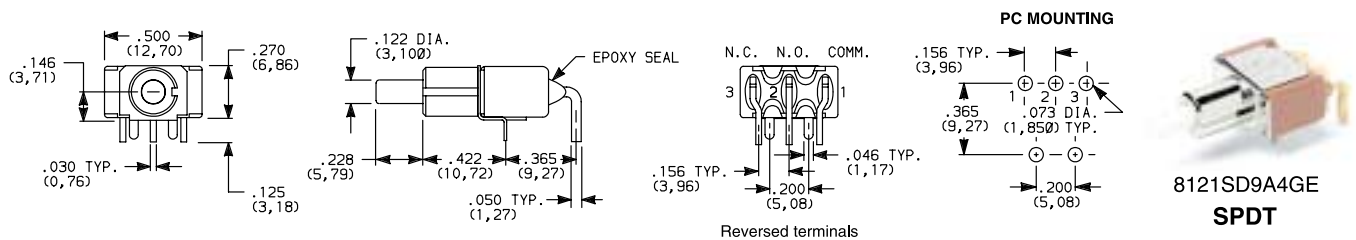
Not available with JXX actuators and I seal option.
Terminal bend radii and lead-in manufacturing option.

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.

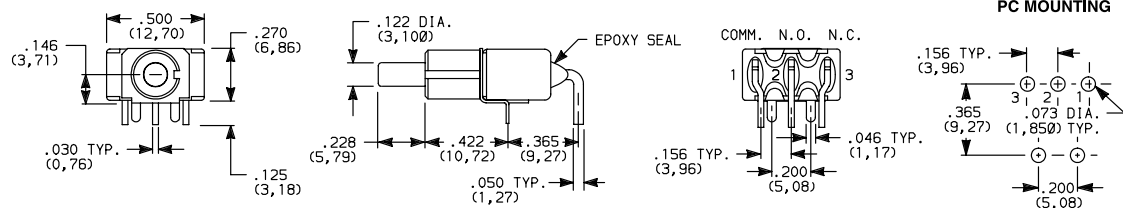
The A4 and R2 termination options are functionally identical and fit the same PC mounting pattern. The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R2, the A4 option is available with UL/CSA.

C&K 8020 Series Snap-acting Momentary Pushbutton Switches

TERMINATIONS



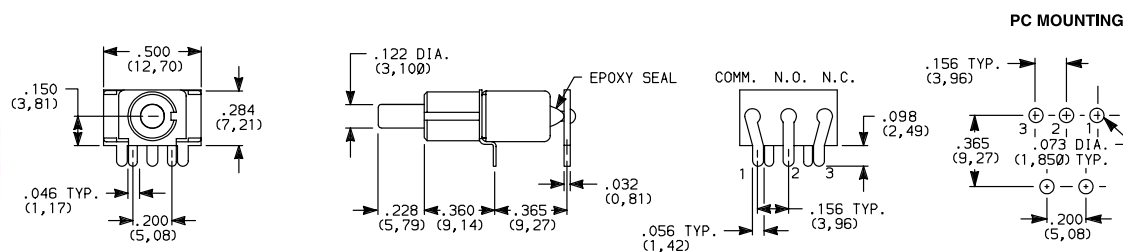
A6 RIGHT ANGLE, PC THRU-HOLE



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

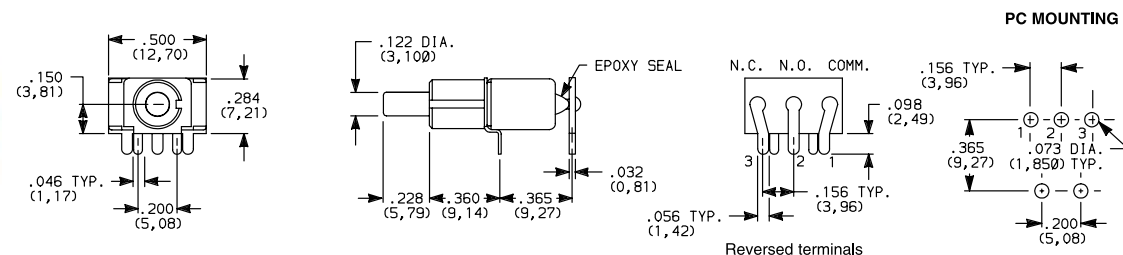
The A6 and R termination options are functionally identical and fit the same PC mounting pattern. The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R, the A6 option is available with UL/CSA.

R RIGHT ANGLE WITH PCB



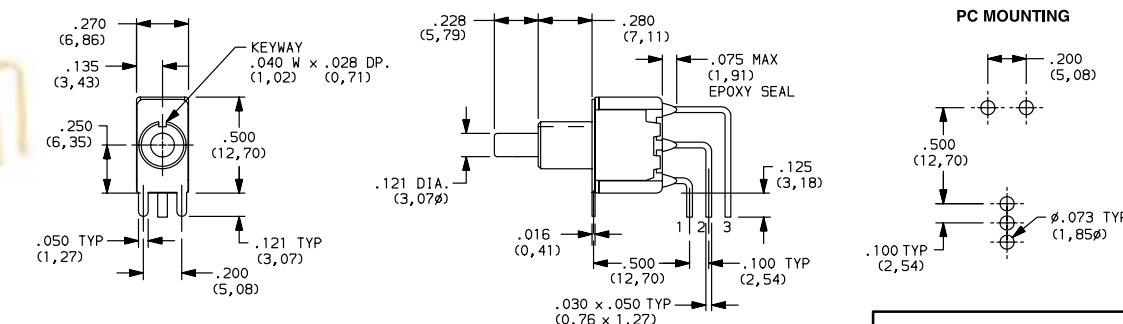
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings, I seal option.
R termination not UL/CSA approved.

R2 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.

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



Pushbutton

A

A

Pushbutton

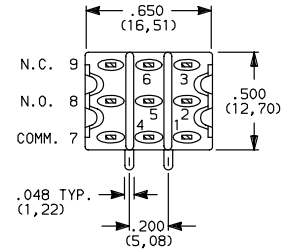
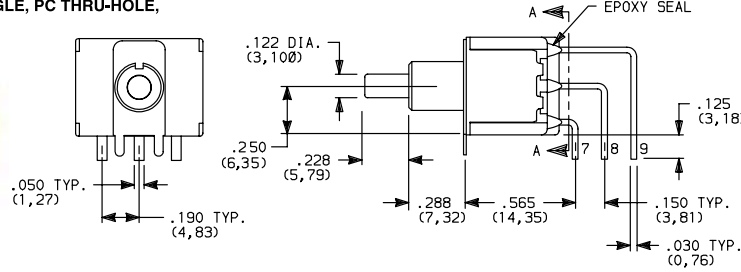
C&K 8020 Series Snap-acting Momentary Pushbutton Switches

TERMINATIONS

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

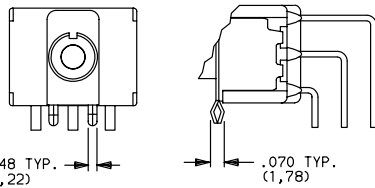


8321SD9AV2GE
3PDT



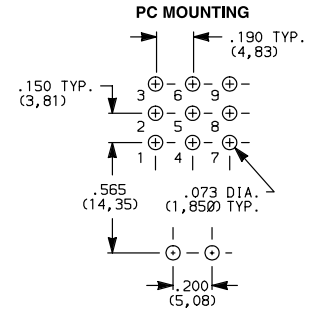
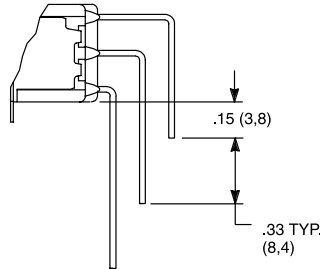
SECTION A-A

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

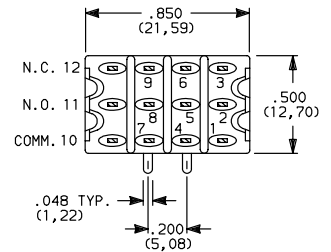
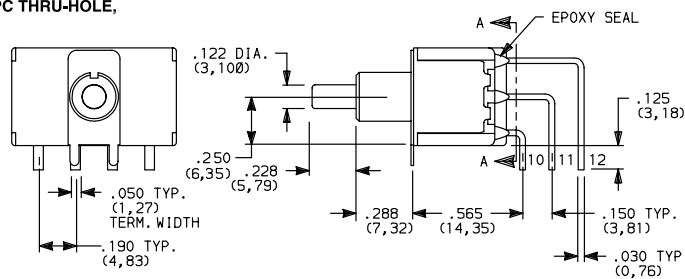


PC MOUNTING

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

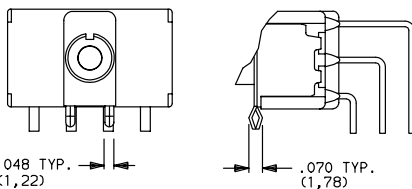


8421SD9AV2GE
4PDT



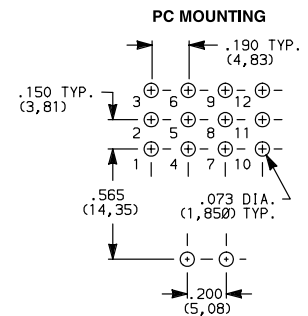
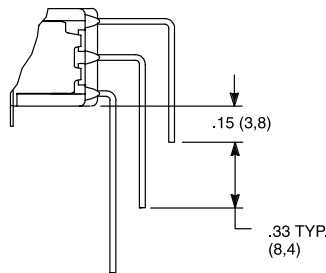
SECTION A-A

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



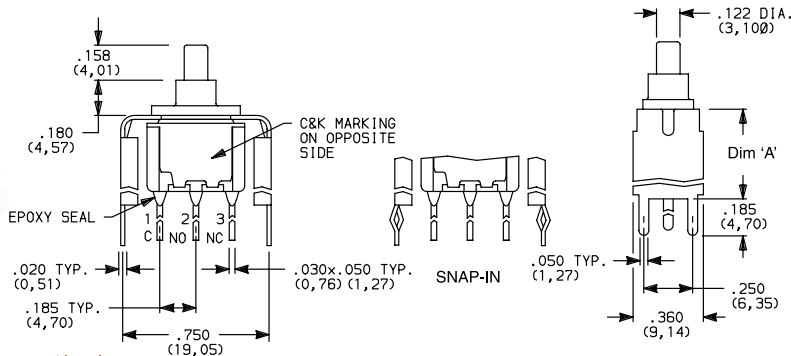
PC MOUNTING

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

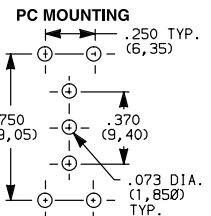
V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN



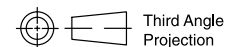
8121SD3_GE
SPDT



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: IN (mm)
Dimensions subject to change

C&K 8020 Series Snap-acting Momentary Pushbutton Switches

TERMINATIONS

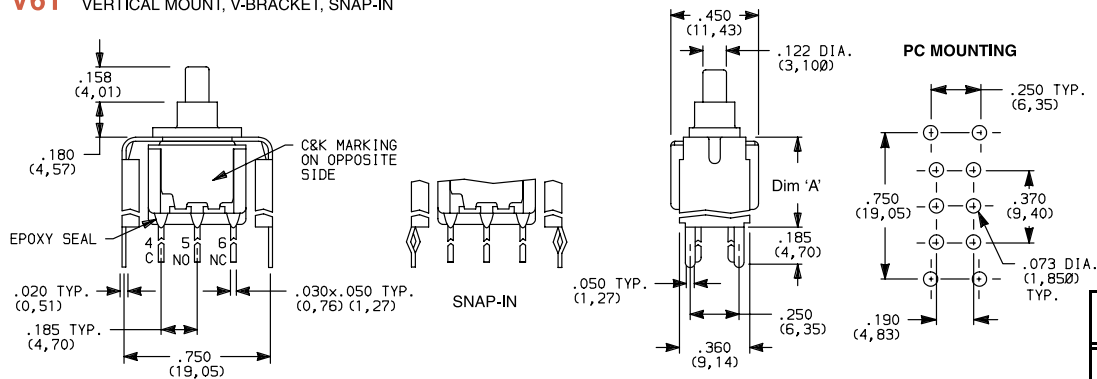


A

Pushbutton

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

V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN

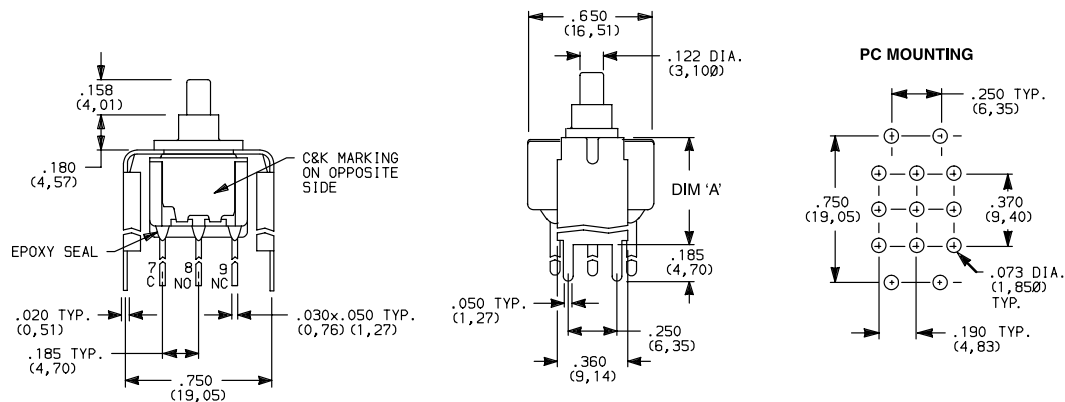


8221SD3_GE
DPDT

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

Not available with JXX actuators and I seal.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET

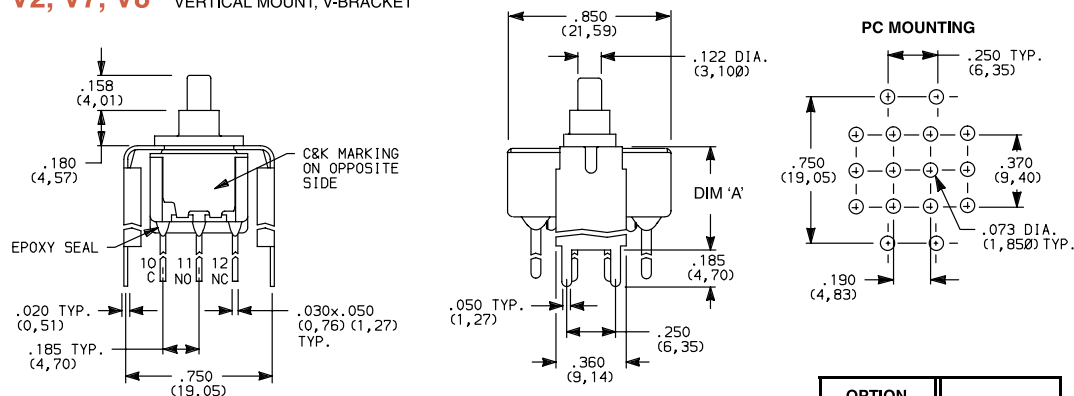


8321SD3_GE
3PDT

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

Not available with JXX actuators and I seal.

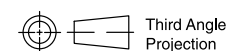
V2, V7, V8 VERTICAL MOUNT, V-BRACKET



8421SD3_GE
4PDT

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

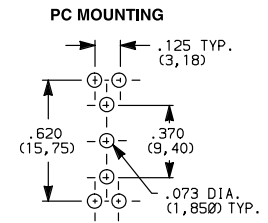
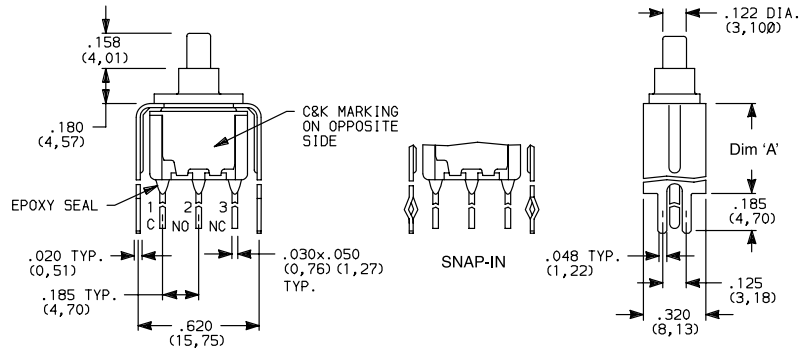
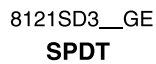
Not available with JXX actuators and I seal.



Dimensions are shown: IN (mm)
Dimensions subject to change

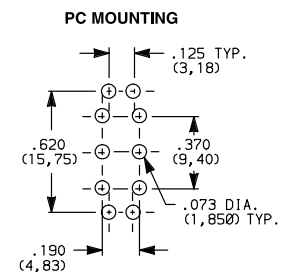
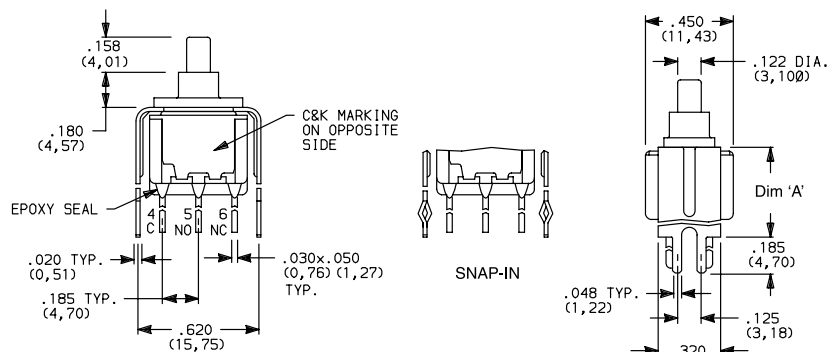
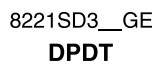
TERMINATIONS

V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



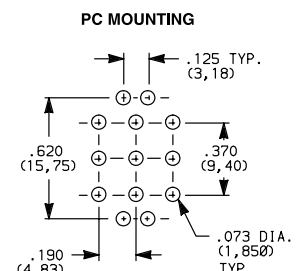
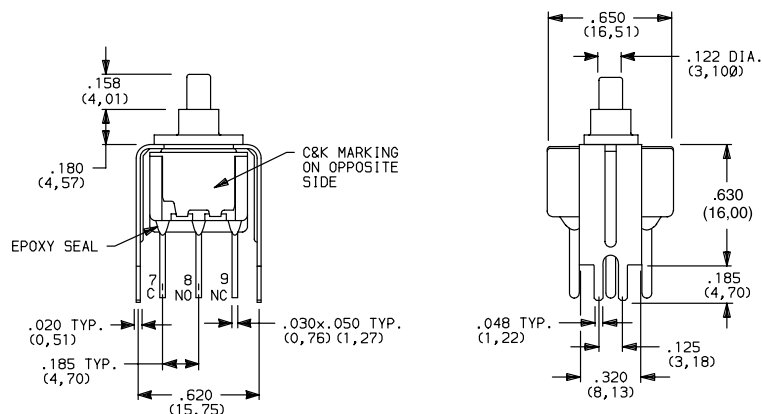
OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4	.630 (16,00)
V9	1.150 (29,21)

V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



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

V4, V9 VERTICAL MOUNT, V-BRACKET



OPTION CODE	DIM 'A'
V4	.630 (16,00)
V9	1.150 (29.21)



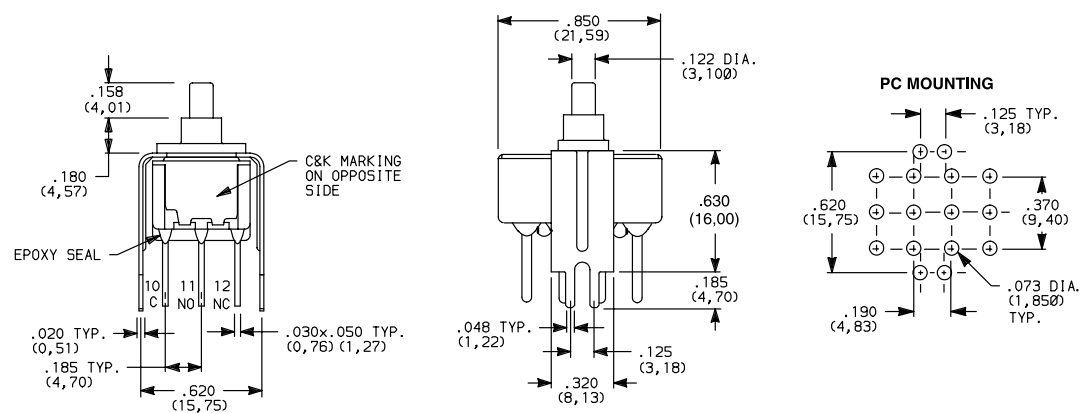
Third Angle Projection

Dimensions are shown: IN (mm)
Dimensions subject to change

C&K 8020 Series Snap-acting Momentary Pushbutton Switches

TERMINATIONS

V4, V9 VERTICAL MOUNT, V-BRACKET



8421SD3V4GE
4PDT

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

Not available with JXX actuators and I seal.

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B (STD.)	GOLD ¹	GOLD ¹	LOW LEVEL/DRY CIRCUIT	8X25 MODELS ONLY: 0.4 VA MAX. @ 20 V AC OR DC MAX.
K		TIN-LEAD ⁴		
G (STD.)	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/DRY CIRCUIT OR POWER	8X21, U8X1 MODELS ONLY: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 1 AMP @ 120 V AC OR 28 V DC;
L		TIN-LEAD ⁴		

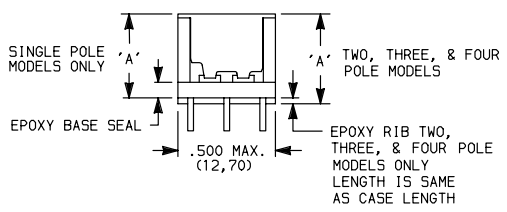
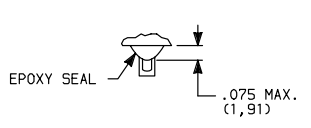
CONTACT MATERIAL/APPLICATION RECOMMENDATIONS—SEE SECTION N.

- ¹ ALL CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- ² N.O. & 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 tin-lead alloy over nickel plate.
- U811-U841 models with all options (except R, R2 terminations) when ordered with mandatory G or L contact material.
- B or K contact material must be ordered with 8X25 models.
- G or L contact material must be ordered with 8X21, U8X1 models.
- K and L contact material not available with Z, Z3 terminations.

SEAL

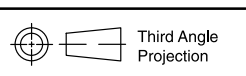
E (STD.) EPOXY SEAL

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.



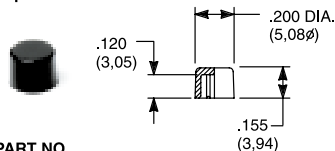
C&K 8020 Series Snap-acting Momentary Pushbutton Switches

AVAILABLE HARDWARE

A

Pushbutton

Cap

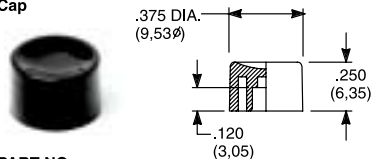


PART NO.

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

Material: Nylon
Finish: Gloss

Cap

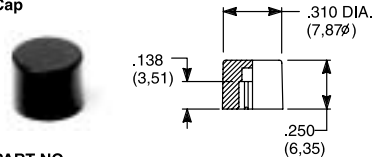


PART NO.

752701000 WHITE
752702000 BLACK
752703000 RED
752504000 ORANGE
752705000 YELLOW
752706000 GREEN
752707000 BLUE
752709000 GRAY

Material: Nylon
Finish: Gloss

Cap

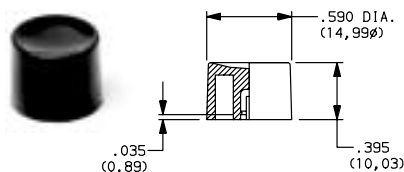


PART NO.

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

Material: Nylon
Finish: Gloss

Cap, Snap-fitting plunger

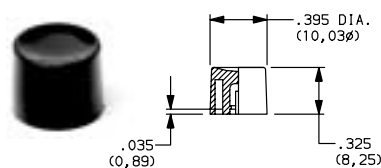


PART NO.

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

Material: Nylon
Finish: Gloss

Cap, Snap-fitting plunger

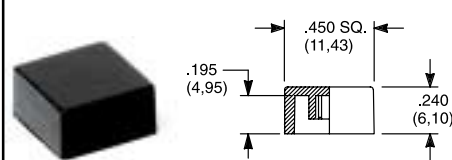


PART NO.

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

Material: Nylon
Finish: Gloss

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



PART NO.

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

Material: Nylon
Finish: Gloss

PART NO.

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

Material: Nylon
Finish: Matte

Frame



PART NO.

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

Material: Nylon
Finish: Matte

Frame

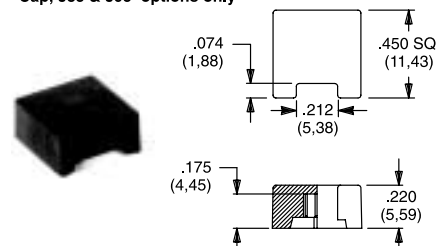


PART NO.

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

Material: Nylon
Finish: Matte

Cap, J85 & 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 N.

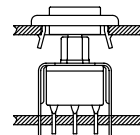
Other cap & frame colors available, consult Customer Service Center.

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.
432501000
432502263
432503000
432505000
432506000
432509000

.062" (1,57) PANEL THK.

PART NO.
432601000
432602263
432603000
432605000
432606000
432609000

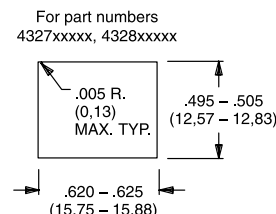
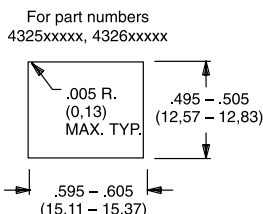
.090" (2,29) PANEL THK.

PART NO.
432701000
432702263
432703000
432705000
432706000
432709000

.125" (3,18) PANEL THK.

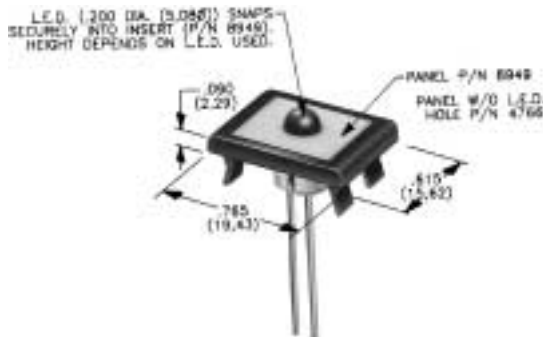
PART NO.
432801000 WHITE
432802263 BLACK
432803000 RED
432805000 YELLOW
432806000 GREEN
432809000 GRAY

PANEL MOUNTING



Panel Inserts

Above frames (part nos. 432XXXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. **LED not included.**



PANEL INSERT WITH HOLE FOR LED

PART NO.
894901000
894902000
894903000
894905000
894906000
894909000

BLANK PANEL INSERT WITHOUT HOLE FOR LED

PART NO.
476601000 WHITE
476602000 BLACK
476603000 RED
476605000 YELLOW
476606000 GREEN
476609000 GRAY

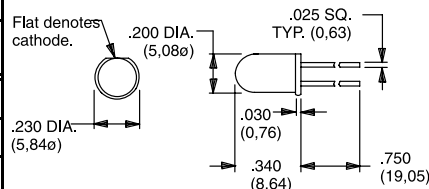
Special colors, custom markings available, consult Customer Service Center.

LED INFORMATION

SWITCHES WITH LED SUPPLIED: J85, J95 OPTIONS:

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

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
3	Green	1.0 mcd	2.1 V	20 mA	2.5 V	50 mA	125 mW
5	Red*	0.5 mcd		10 mA		30 mA	75 mW
6	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.