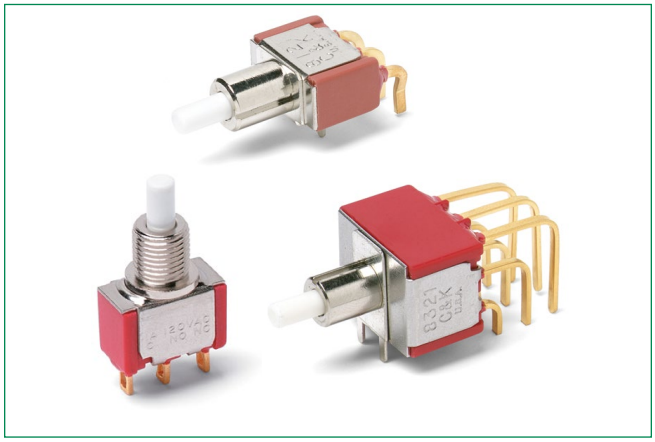
8020 Series

Snap-acting Momentary Pushbutton Switches



Description

The 8020 series of snap-acting momentary pushbutton switches are used in telecommunications equipment and computer peripherals because of their positive tactile feel and wide variety of termination options. The 8020 switches are also epoxy terminal seal-compatible with bottom wash cleaning.

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

Applications

- Instrumentation
- Computer peripherals
- Telecommunications equipment

Agency Approvals

Agency	Agency File Number
c UL us	E42363

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
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 Ω min
Dielectric Strength	1000 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)

Notes:
1. c UL us 10,000 cycles
2. Any models supplied with P, R, B or G contact material are RoHS compliant. Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Materials

Case & Bushing	Glass filled nylon 6/6 or diallyl phthalate (DAP), flame retardant (UL 94 V-0)
Plunger	Glass filled nylon or glass filled polyester (PBT) (UL 94 V-0)
Switch Support	Nylon, black, standard
Switch Support Retainer	Stainless steel
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 materia ls 8X25 models: B contact material: Copper alloy, with gold plate over nickel plate. See page A-43 for additional contact materials
Common Contacts & 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

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8020 Series
Snap-acting Momentary Pushbutton Switches

Ordering Number

To order, simply select desired option from each category and place in the appropriate box. 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.

8x - x - x - x - x - x - x - x - x

Switch Function
8121: SPDT On-Mom. 1 Amp
8125: SPDT On-Mom. 0.4VA
8221: DPDT On-Mom. 1 Amp
8225: DPDT On-Mom. 0.4VA
8321: 3PDT On-Mom. 1 Amp
8325: 3PDT On-Mom. 0.4VA
8425: 4PDT On-Mom. 0.4VA

Actuator or Plunger
S: 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
J85: Snap-in w/ frame & LED
J95: PC w/ V-bracket & LED
L: Plunger
M: Snap-fitting plunger

Bushing
D8: 0.288" high, flat
H9: 0.250" high, flat, hi torque
Y: 0.350" high, keyway
Y3: 6.35mm high, keyway, hi torque
Y4: 0.378" high, flat, hi torque
Y9: 0.350" high, keyway
D9: 0.280" high, keyway
H: 0.250" high, flat
NONE: No bushing choice required
D: 0.280" high, keyway
D2: 0.288" high, flat
D3: 0.180" high

Terminations
A: Right sngle, PC Thru-hole
AV2: Vertical right angle, PC Thru-hole
C: PC Thru-hole
Z: Solder lug
A2: Right angle, snap-in, PC Thru-hole
A3: Vertical right angle, snap-in, PC Thru-hole
A4: Right angle, PC thru-hole, reversed terminals
A6: Right angle, PC thru-hole
AV1: Vertical right angle, PC thru-hole
AV3: Vertical right angle, snap-in, PC thru-hole
V2: 0.555" high, V-bracket
V3: 0.460" high, V-bracket
V4: 0.630" high, V-bracket
V6: 0.460" high, V-bracket
V7: 0.630" high, V-bracket
V8: 0.953" high, V-bracket
V9: 1.150" high, V-bracket
V31: 0.460" high, snap-in V-bracket
V61: 0.460" high, snap-in V-bracket
W: 0.750" long, wire wrap
W1: 0.964" long, wire wrap
W3: 0.425" long, wire wrap
W4: 1.062" long, wire wrap
Z3: Quick connect

Seal
E: Epoxy
I: Epoxy potted base

Contact Material
B: Gold
G: Gold over silver
P: Gold, matte-tin
R: Gold over silver, matte tin

Cap Color
2: Black
None: Models without caps
1: White
3: Red
4: Orange
5: Yellow
6: Green
7: Blue
9: Gray

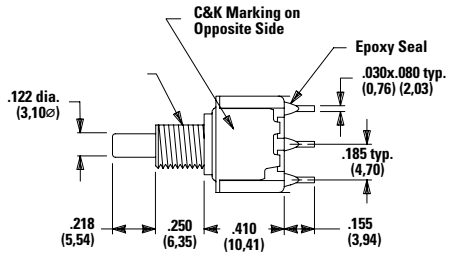
Frame Color
2: Black
None: Models without frame
1: White
3: Red
5: Yellow
6: Green
9: Gray

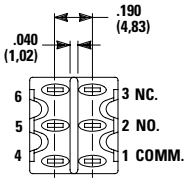
LED Color
3: Red
None: Models without LED
5: Yellow
6: Green

Notes:
Models 8121, 8221, 8321, 8421 with UL Part Numbers U811, U821, U831 and U841, respectivley are c UL us

SPDT

No. Poles	Mo. Poles	UL/CSA[1] Model No.	Switch Function POS. 1	Switch Function POS. 2	Connected Terminals POS. 1	Connected Terminals POS. 2	Schematic
			C&K marking on opposite side				
SP	8121	U811	ON	MOM.	1-3	1-2	SPDT NC 3 1 (COMM) 2 NO
	8125	-					





Terminal Nos. For Reference Only

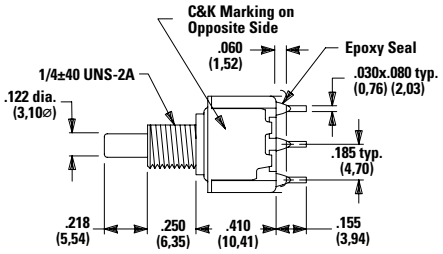
Part Number Shown: 8121SHZGE

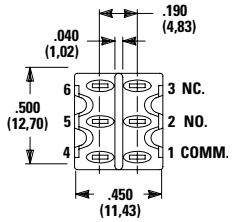
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8020 Series
Snap-acting Momentary Pushbutton Switches

DPDT

No. Poles	Model No.	UL/CSA[1] Model No.	Switch Function		Connected Terminals		Schematic
			POS. 1	POS. 2	POS. 1	POS. 2	
			C&K marking on opposite side				
DP	8221	U821	ON	MOM.	1-3, 4-6	1-2,4-5	DPDT
	8225	-					



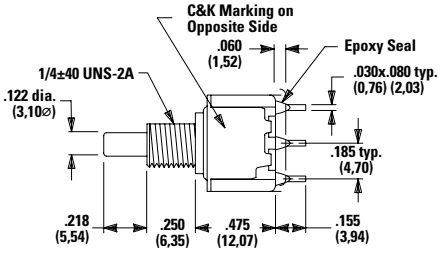


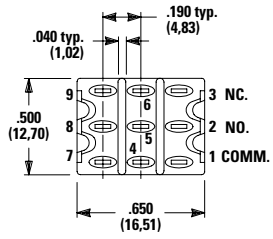
Terminal Nos. For Reference Only

Part Number Shown: 8221SHZGE

3PDT

No. Poles	Model No.	UL/CSA[1] Model No.	Switch Function		Connected Terminals		Schematic
			POS. 1	POS. 2	POS. 1	POS. 2	
			C&K marking on opposite side				
3P	8321	U831	ON	MOM.	1-3, 4-6, 7-9	1-2, 4-5, 7-8	3PDT
	8325	-					





Terminal Nos. For Reference Only

Part Number Shown: 8321SHZGE

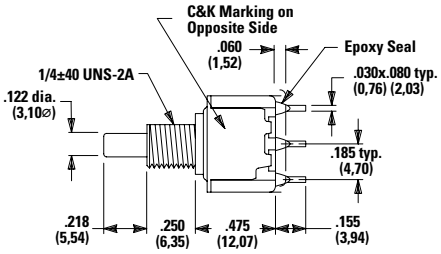
Notes:
MOM. = Momentary

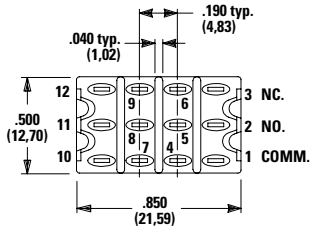
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8020 Series
Snap-acting Momentary Pushbutton Switches

4PDT

No. Poles	Model No.	UL/CSA[1] Model No.	Switch Function POS. 1	Switch Function POS. 2	Connected Terminals POS. 1	Connected Terminals POS. 2	Schematic
			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	3PDT
	8425	-					





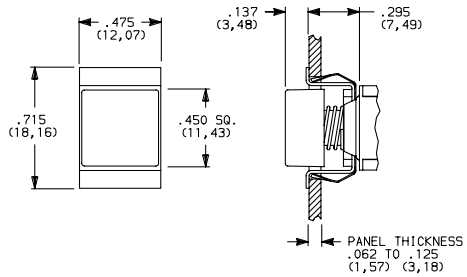
Terminal Nos. For Reference Only

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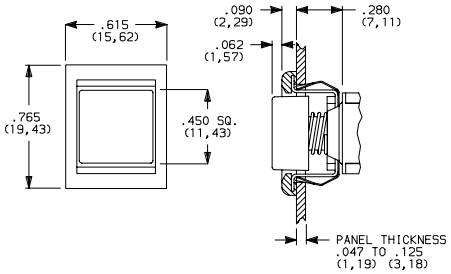
Notes:
MOM. = Momentary

Actuator - Snap-in Front Mount
inches (mm)

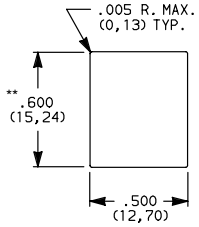
J80 Snap-in



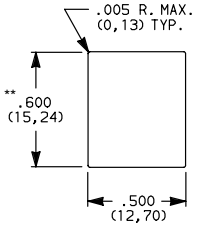
J81 Snap-in with Frame



Panel Mounting



Panel Mounting



Notes:
No frame color choice required. Increase this dim. to 0.620/0.625 (15.75/15.88) for 0.091/0.125 (2.31/3.18) thk. panels.

Notes:
Available with C, W-W4, Z or Z3 terminations and SPDT and DPDT models only. Increase this dim. to 0.620/0.625 (15,75/15,88) for 0.091/0.125 (2,31/3,18) thk. panels.

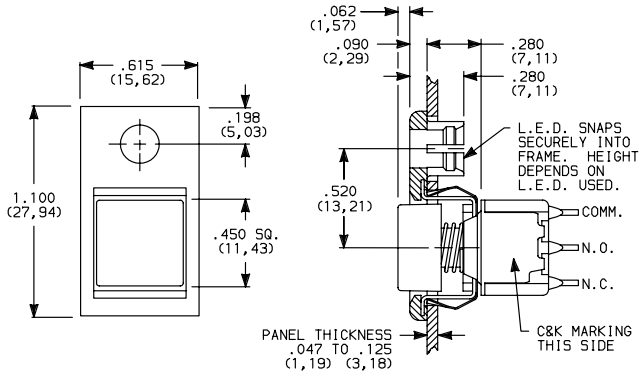
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8020 Series
Snap-acting Momentary Pushbutton Switches

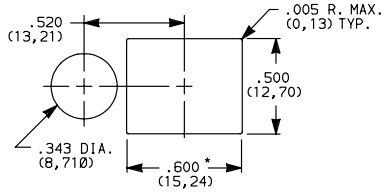
Option Code	Cap and Frame Color
2	Black
NONE	No Frame Color (J80 option)
1	White
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
9	Gray

Notes:
Other colors available, consult Customer Service Center. Cap and Frame Finish: matte. Caps and frames available separately.

J82 Snap-in with Frame for LED



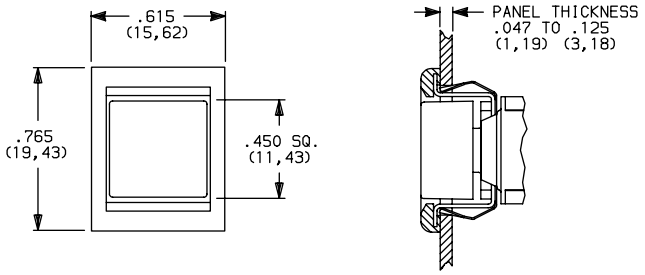
Panel Mounting



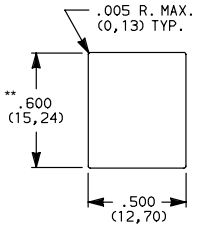
* Increase this dim. to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

Notes:
LED not included. For LED information, see page 9.

J83 Snap-in with Frame and Flush Cap



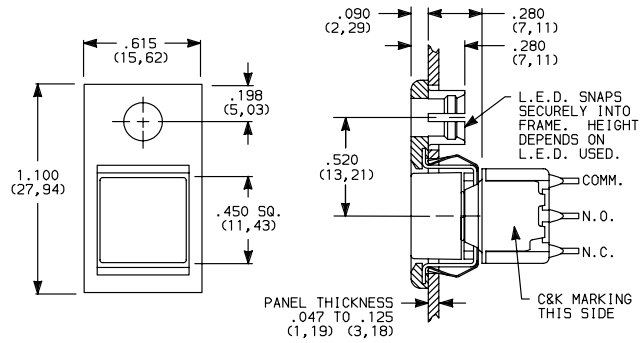
Panel Mounting



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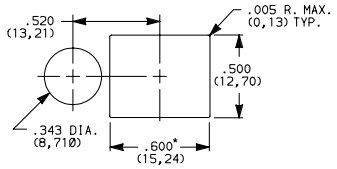
8020 Series
Snap-acting Momentary Pushbutton Switches

J84 Snap-in with Frame for LED, Flush Cap



Notes:
LED not included. For LED information, see page 29.

Panel Mounting



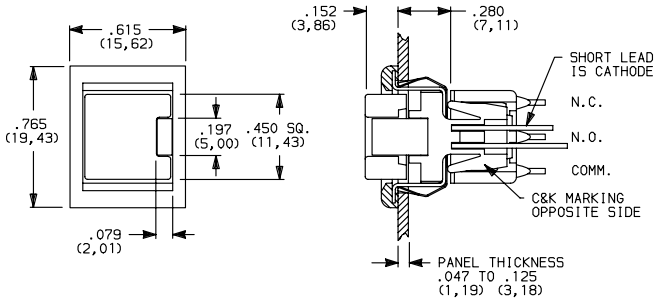
* Increase this dim. to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

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

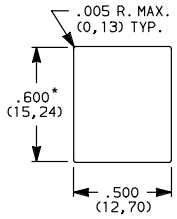
Notes:
Other colors available, consult Customer Service Center. Cap and Frame Finish: Matte. Available with C, W-W4, Z or Z3 terminations and SPDT and DPDT models only. Caps and frames available separately.

8121J85ZGE223 SPDT

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.

Option Code	Cap and Frame Color
2	Black
1	White
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
9	Gray

Notes:
Available with C, W-W4, Z or Z3 terminations and SPDT models only. For LED information see page 9. Caps & frames available separately.

Option Code	LED Color
3	Red
5	Yellow
6	Green

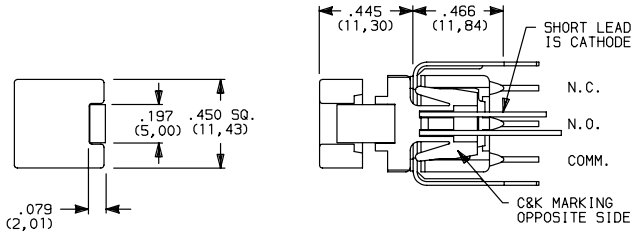
Notes:
For LED information see page 9.

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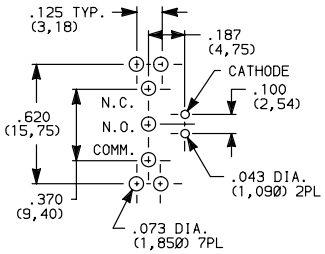
8020 Series
Snap-acting Momentary Pushbutton Switches

Actuator - PC Mount
8121J95V3GE23 SPDT

J95 PC with V-Bracket and LED



PC Mounting



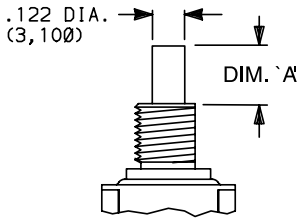
Option Code	Cap and Frame Color
2	Black
1	White
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
9	Gray

Option Code	LED Color
3	Red
5	Yellow
6	Green

Notes:
For LED information see page 9. Caps available separately. Available with V3 terminations and SPDT models only.

Plunger

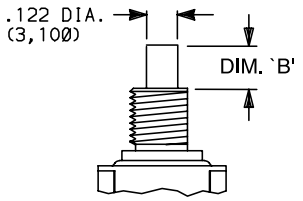
S Plunger



Available Bushings	DIM 'A' for C, W-W4, Z & Z3 Terminations	DIM 'A' for A, A2, A3, A4, A6, AV-A3, R & R2 Terminations	DIM 'A' for V3-V61 Terminations
D, D9	0.244 (6.20)	0.228 (5.79)	0.224 (5.69)
H, H9	0.218 (5.54)	0.202 (5.13)	0.198 (5.03)
Y, Y9	0.203 (5.16)	0.187 (4.75)	0.183 (4.65)
Y3	(5.54)	(5.13)	(5.03)
Y4	0.185 (4.70)	0.169 (4.29)	0.165 (4.19)
D2, D8	N/A	0.232 (5.89)	0.228 (5.79)
D3	N/A	0.162 (4.11)	0.158 (4.01)

None No Plunger Choice Required (JXX Actuators)

L Plunger

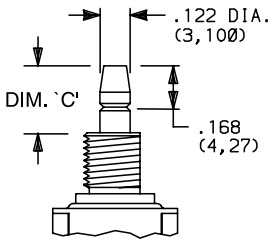


Available Bushings	DIM 'B' for C, W-W4, Z & Z3 Terminations	DIM 'B' for A, A2, A3, A4, A6, AV-A3, R & R2 Terminations	DIM 'B' for V3-V61 Terminations
Y, Y9	0.178 (4.52)	0.162 (4.11)	0.158 (4.01)
Y4	0.090 (2.29)	0.074 (1.88)	0.070 (1.78)

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8020 Series
Snap-acting Momentary Pushbutton Switches

M Snap-Fitting Plunger



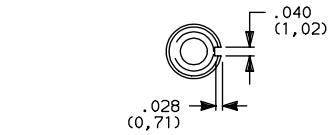
Available Bushings	DIM 'A' for C, W-W4, Z & Z3 Terminations	DIM 'A' for A, A2, A3, A4, A6, AV-A3, R & R2 Terminations	DIM 'A' for V3-V61 Terminations
D, D9	0.297 (7.54)	0.281 (7.14)	0.277 (7.04)
H, H9	0.267 (6.78)	0.251 (6.38)	0.247 (6.27)
Y, Y9	0.259 (6.58)	0.243 (6.17)	0.239 (6.07)
Y3	(6.78)	(6.37)	(6.27)
Y4	0.259 (6.58)	0.243 (6.17)	0.239 (6.07)
D2, D8	N/A	0.273 (6.93)	0.269 (6.83)
D3	N/A	0.361 (9.17)	0.357 (9.07)

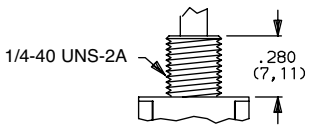
Notes: When selecting plunger option, bushing selection must also be made, see next page. No plunger option is required when any JXX actuator option is selected. Additional plunger lengths are available on SPDT and DPDT models, consult Customer Service Center. Not all plunger lengths sufficient for use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

Bushing

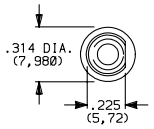
None No Bushing Choice Required (JXX Actuators)

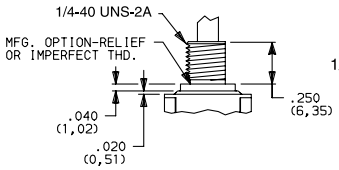
D .280" High Threaded, Keyway D9 0.28034" High Unthreaded, Keyway



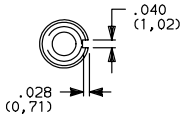


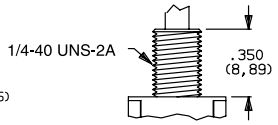
H 0.250"34 High Threaded, Flat H9 0.250"34 High Unthreaded, Flat





D 0.280" High Threaded, Keyway D9 0.28034" High Unthreaded, Keyway



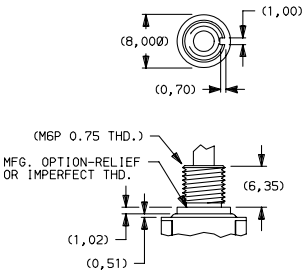


Notes:
D9 bushing standard with A-A6, R, R2 AV-AV3 terminations. H bushing standard with C, W-W4, Z or Z3 terminations. H, H9 bushings not available on single pole models withA3-A6, R, R2 terminations. Will withstand 12 in./lbs. of torque with no distortion.

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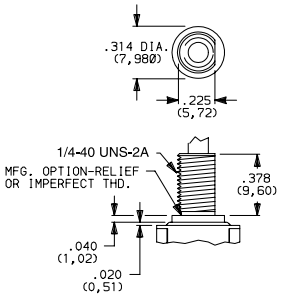
8020 Series
Snap-acting Momentary Pushbutton Switches

Y3 6.35mm, Threaded, Keyway

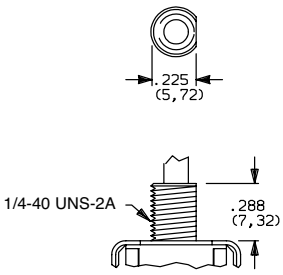


Notes:
Y3 & Y4 bushings not available on single pole models with A3-A6, R, R2 terminations. Will withstand 12 in./lbs. of torquewith no distortion.

Y4 0.378" High Threaded, Flat

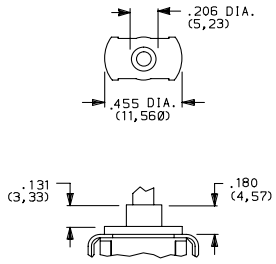


D2 0.288" High Threaded Flat, D8 0.288" High Unthreaded, Flat



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

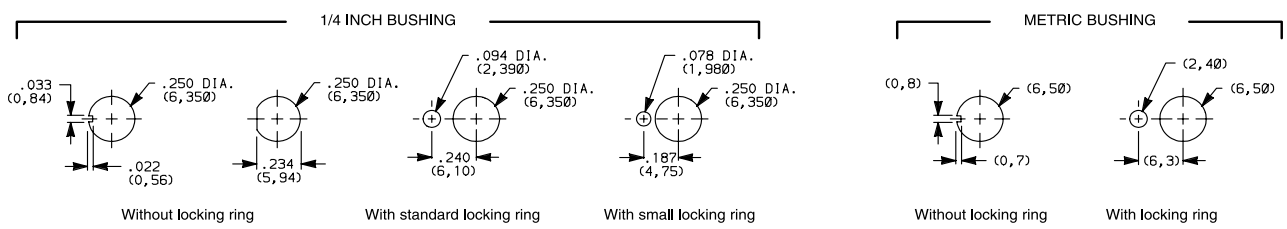
D3 0.180" High Unthreaded



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

Notes:
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.

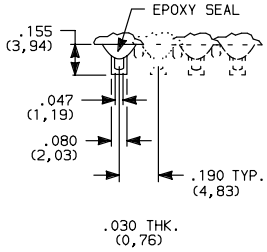
Panel Mounting



Notes:
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".

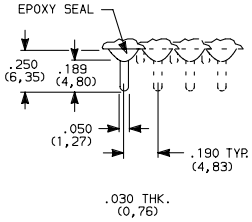
Terminations

Z Solder Lug SPDT thru 4PDT

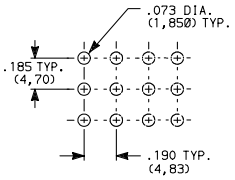


Note: Not available with J95 actuator, P or R contact material.

C PC Thru-hole SPDT thru 4PDT



PC Mounting

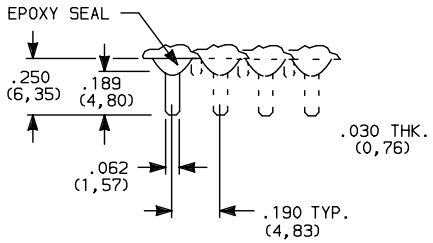


Note: Not available with J95 actuator option.

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8020 Series
Snap-acting Momentary Pushbutton Switches

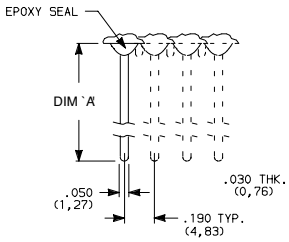
Z3 Quick Connect



SPDT thru 4PDT

Notes: Not available with J95 actuator, P or R contact material. Mating quick connector available, order part number 530100000.

W W1, W3, W4 Wire Wrap

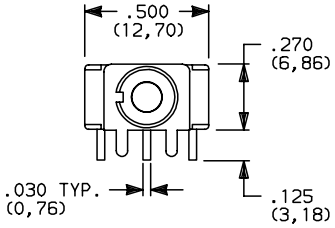


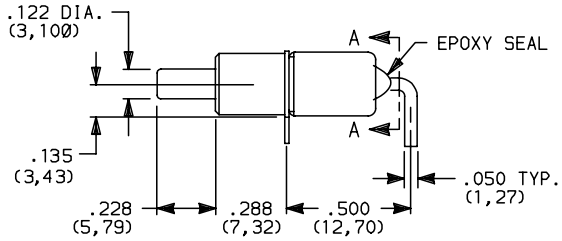
SPDT thru 4PDT

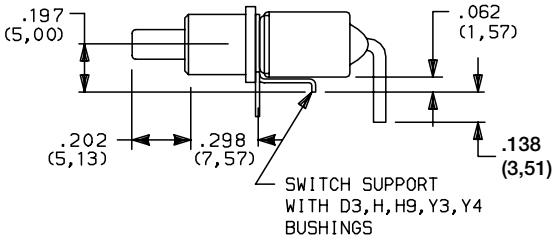
Option Code	LED Color
W	0.750 (19.05)
W1	0.964 (24.49)
W3	0.425 (10.80)
W4	1.062 (26.97)

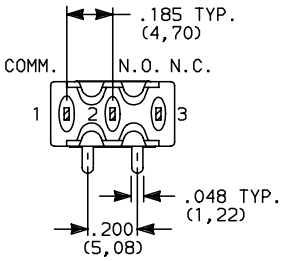
Notes: Not available with J95 actuator option.

A Right Angle, PC Thru-hole
8121SD9AGE SPDT









SECTION A-A

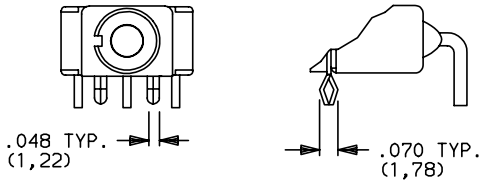
Terminal Nos.
For Reference Only.

Part Number 8121SH9AGE

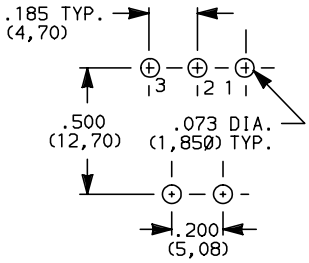
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8020 Series
Snap-acting Momentary Pushbutton Switches

A3 Right Angle,Snap-in, PC Thru-hole

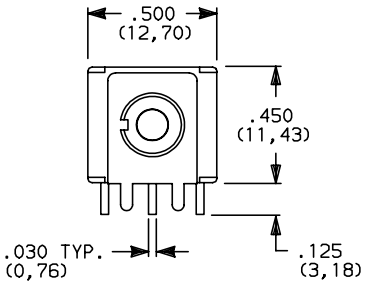


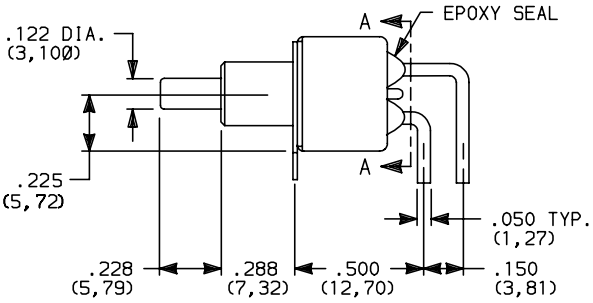
PC Mounting

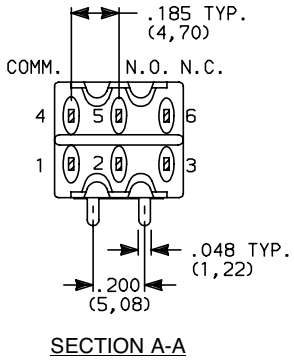


Notes:
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

A Right Angle, PC Thru-hole
8221SD9AGE DPDT

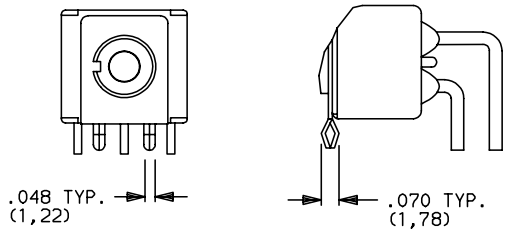




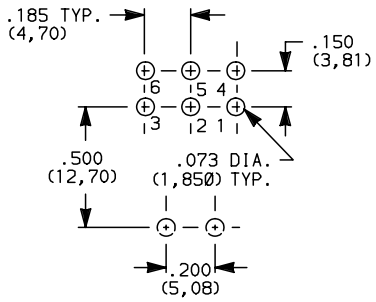


SECTION A-A

A3 Right Angle, Snap-in, PC Thru-hole



PC Mounting

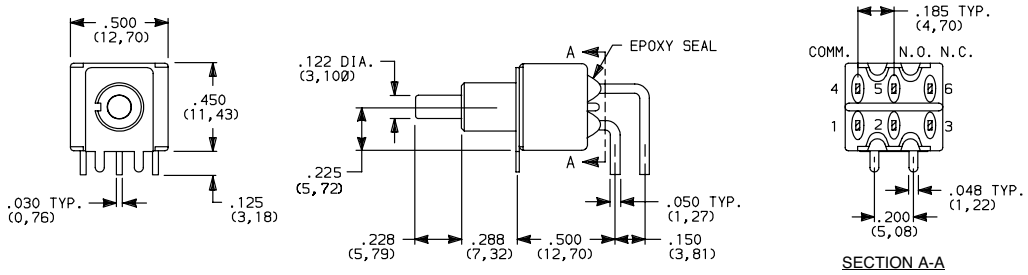


Notes:
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

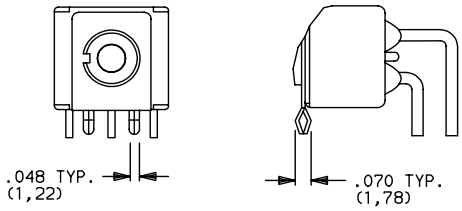
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8020 Series
Snap-acting Momentary Pushbutton Switches

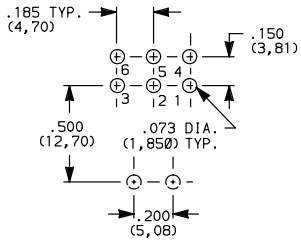
A Right Angle, PC Thru-hole
8221SD9AGE DPDT



A3 Right Angle, Snap-in, PC Thru-hole

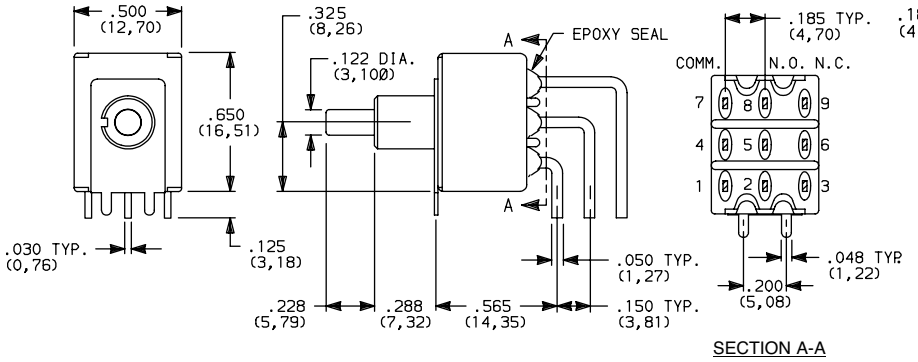


PC Mounting

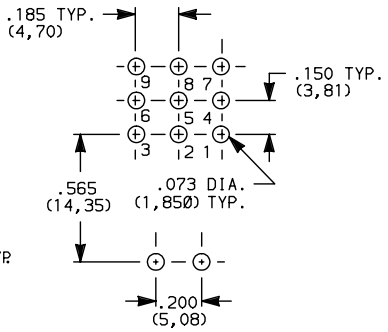


Notes:
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

A Right Angle, PC Thru-hole
8321SD9AGE 3PDT



PC Mounting

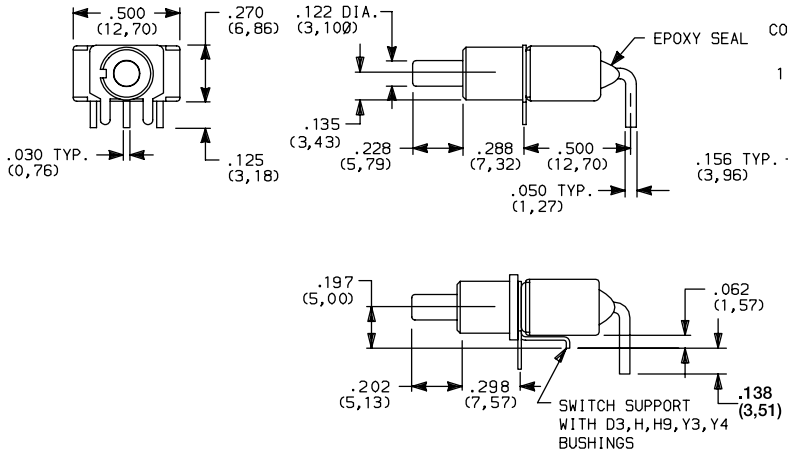


Notes:
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

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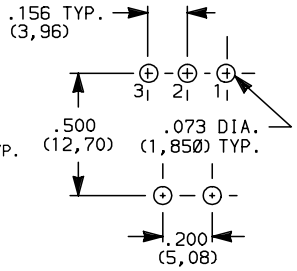
8020 Series
Snap-acting Momentary Pushbutton Switches

A2 Right Angle, PC Thru-hole
8121SD9A2GE SPDT

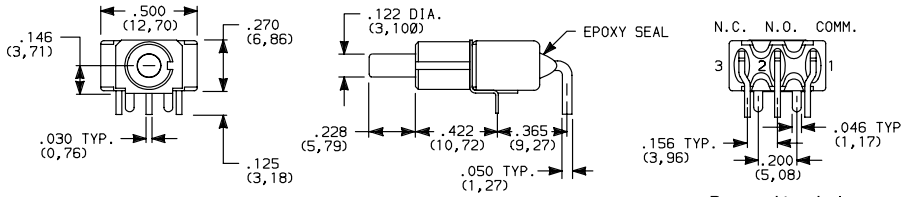


Part Number 8121SH9A2GE

PC Mounting

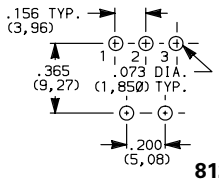


A4 Right Angle, PC Thru-hole, Reversed Terminals



Reversed terminals

PC Mounting



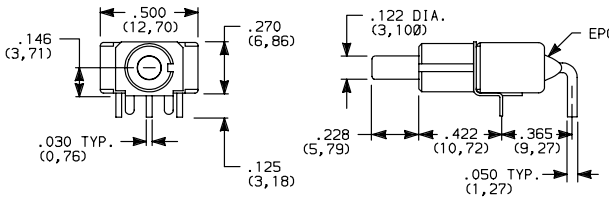
8121SD9A4GE SPDT

Notes:
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.

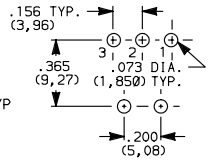
A6 Right Angle, PC Thru-hole



8121SD9A6GE SPDT



PC Mounting

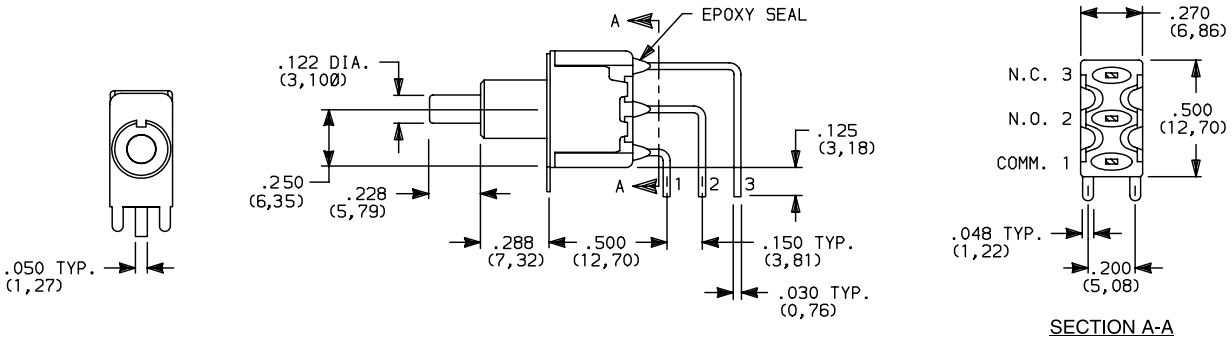


Notes:
Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings and I seal. Terminal bend radii and lead-in manufacturing option. The A4 and R2 termination options are functionally identical and fit the same PC mounting pattern. The switches, however, are shifted relative to the mounting holes. The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

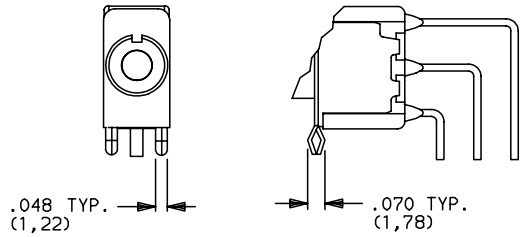
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8020 Series
Snap-acting Momentary Pushbutton Switches

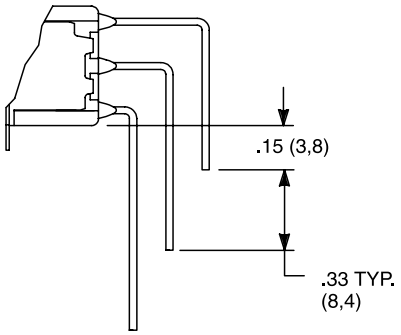
AV2 Vertical Right Angle, PC Thru-hole, 0.150" Pitch
8121SD9AV2GE 3PDT



AV3 Vertical Right Angle, Snap-in, PC Thru-hole, 0.150" Pitch

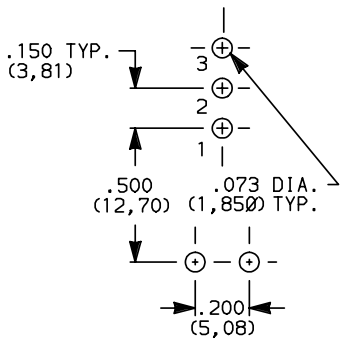


AV1 Vertical Right Angle, Extended, PC Thru-hole, 0.150" Pitch



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

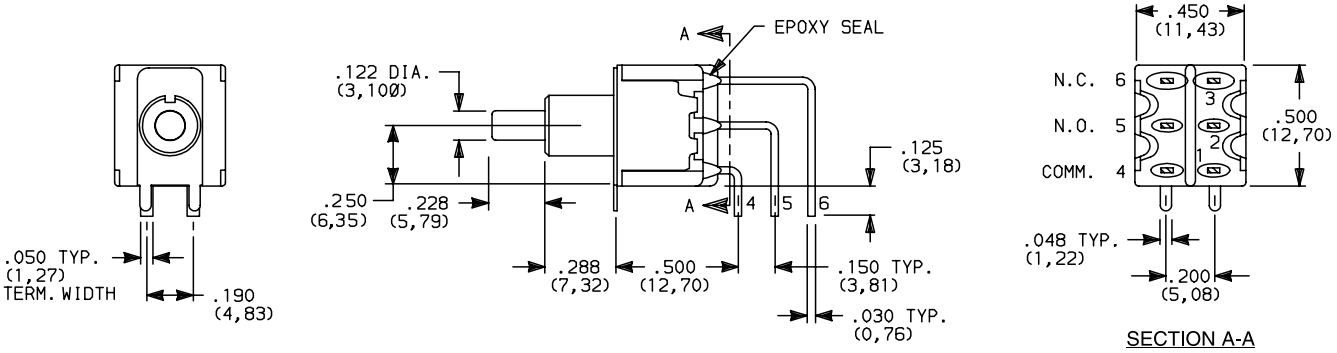
PC Mounting



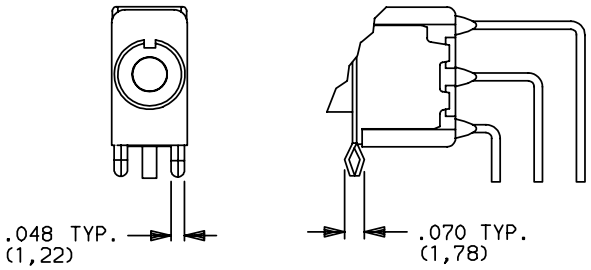
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8020 Series
Snap-acting Momentary Pushbutton Switches

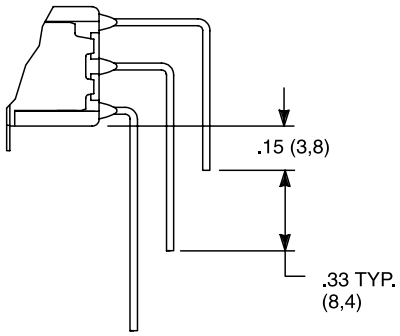
AV2 Vertical Right Angle, PC Thru-hole, 0.150" Pitch
8221SD9AV2GE DPDT



AV3 Vertical Right Angle, Snap-in, PC Thru-hole, 0.150" Pitch

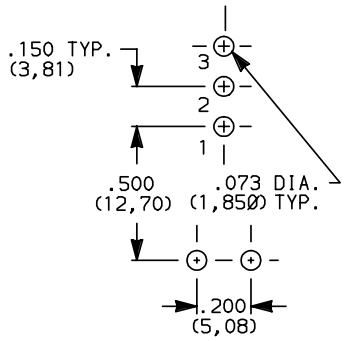


AV1 Vertical Right Angle, Extended, PC Thru-hole, 0.150" Pitch



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

PC Mounting

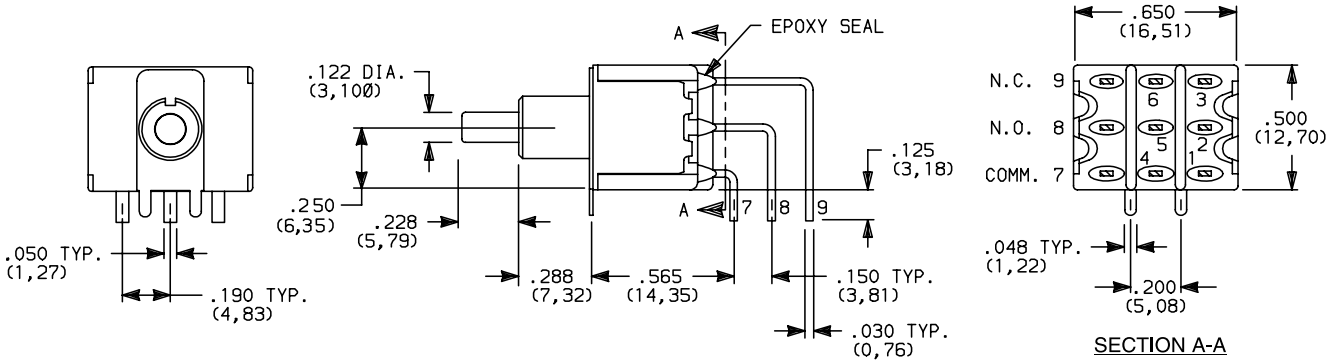


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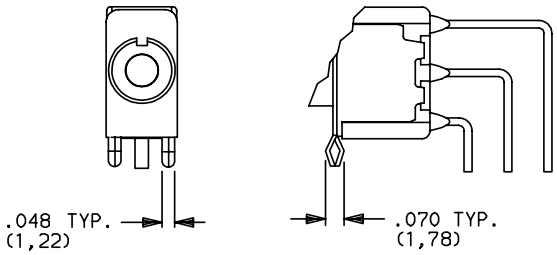
8020 Series
Snap-acting Momentary Pushbutton Switches

AV2 Vertical Right Angle, PC Thru-hole, 0.150" Pitch

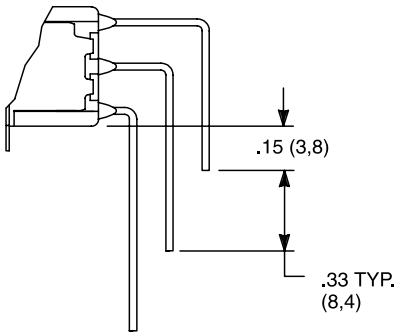
8321SD9AV2GE 3PDT



AV3 Vertical Right Angle, Snap-in, PC Thru-hole, 0.150" Pitch

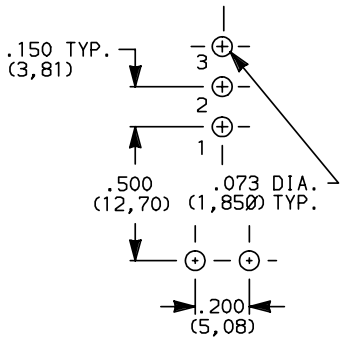


AV1 Vertical Right Angle, Extended, PC Thru-hole, 0.150" Pitch



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

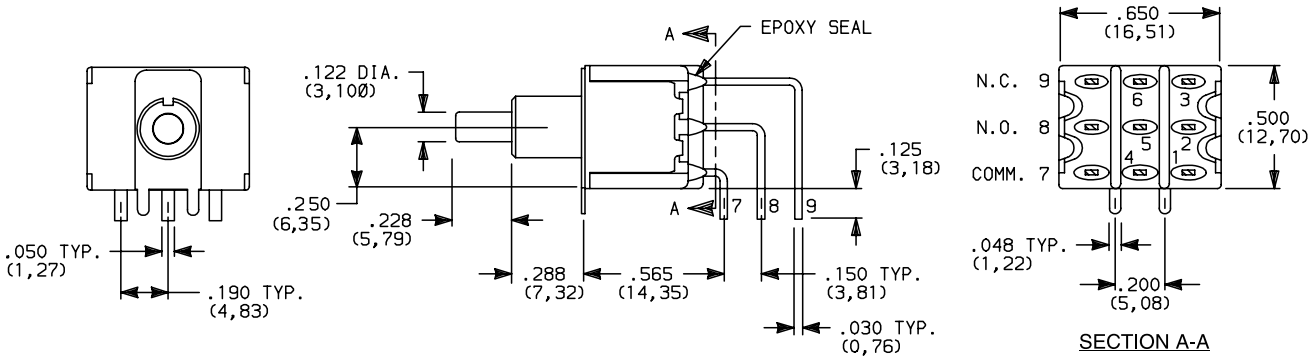
PC Mounting



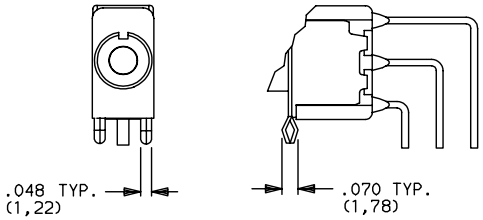
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Revised: VL 10/22/26

8020 Series
Snap-acting Momentary Pushbutton Switches

AV2 Vertical Right Angle, PC Thru-hole, 0.150" Pitch
8421SD9AV2GE 4PDT

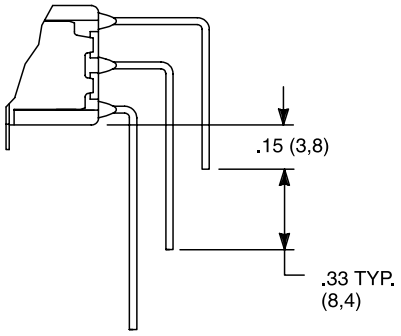


AV3 Vertical Right Angle, Snap-in, PC Thru-hole, 0.150" Pitch

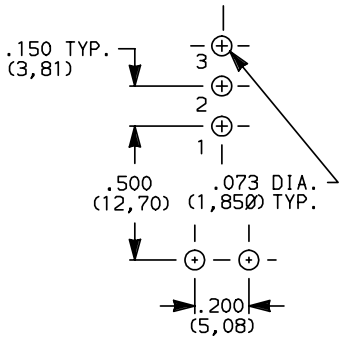


Notes:
Not available with JXX actuators and I seal. Terminal bend radii and lead-in manufacturing option.

AV1 Vertical Right Angle, Extended, PC Thru-hole, 0.150" Pitch



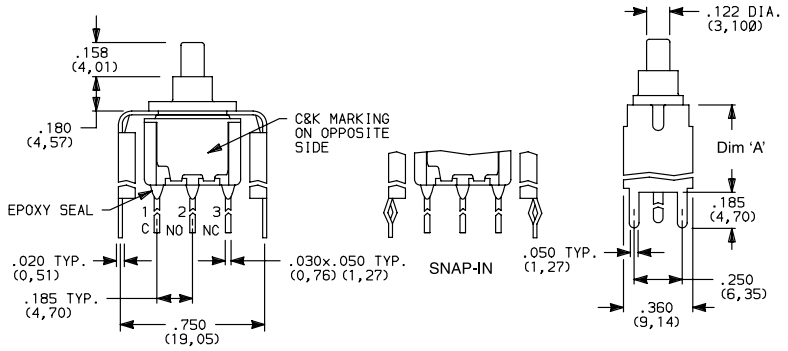
PC Mounting



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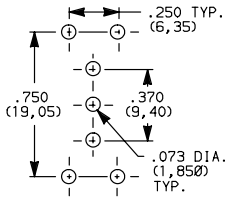
8020 Series
Snap-acting Momentary Pushbutton Switches

V2, V6, V7, V8 Vertical Mount, V-Bracket, V61 Vertical Mount, V-Bracket, Snap-in
8121SD3_GE SPDT



Notes:
Not available with JXX actuators and I seal.

PC Mounting

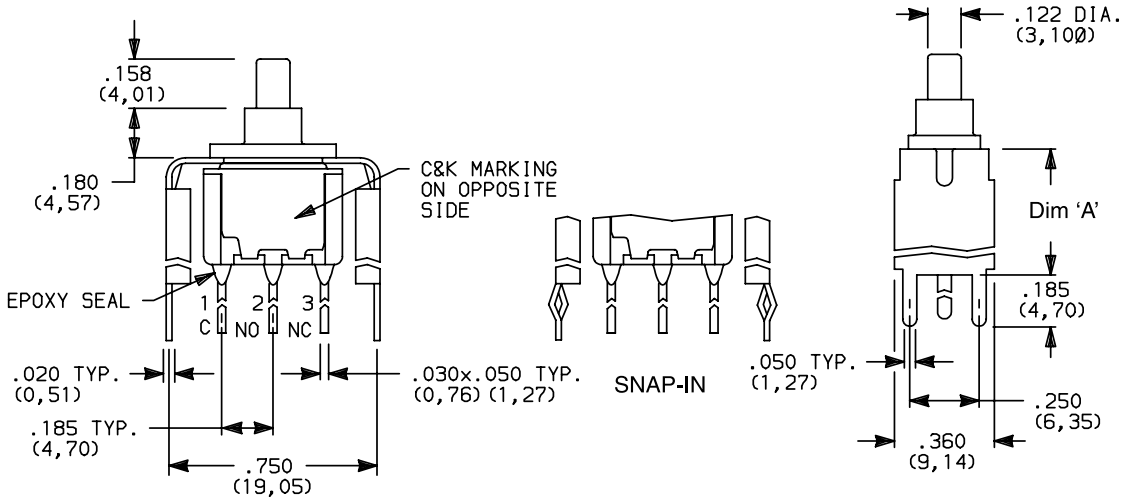


Option Code	DIM 'A'
V2	0.555 (14.10)
V6, V61	0.460 (11.68)
V7	0.630 (16.00)
V8	0.953 (24.21)

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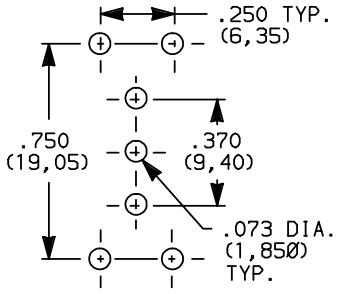
8020 Series
Snap-acting Momentary Pushbutton Switches

V2, V6, V7, V8 Vertical Mount, V-Bracket , V61 Vertical Mount, V-Bracket, Snap-in
8221SD3_GE DPDT



Notes:
Not available with JXX actuators and I seal.

PC Mounting

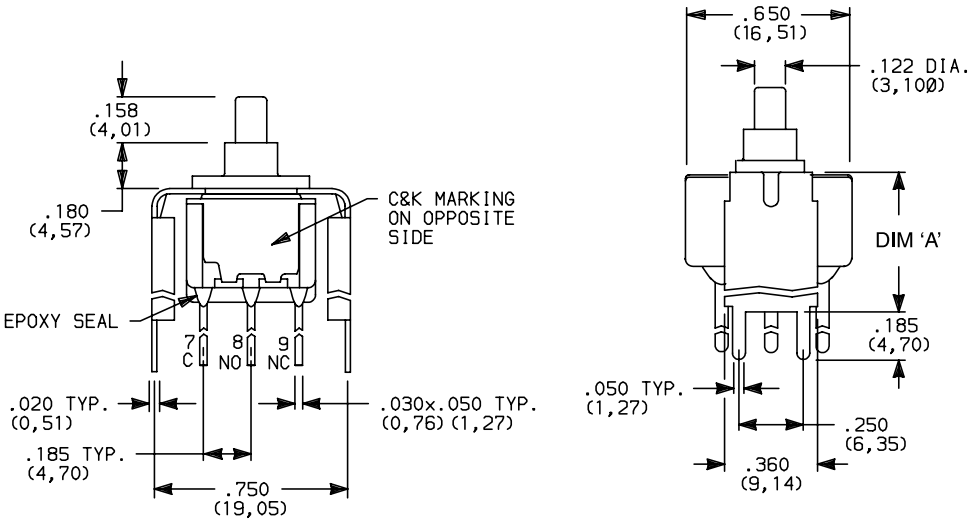


Option Code	DIM 'A'
V2	0.555 (14.10)
V6, V61	0.460 (11.68)
V7	0.630 (16.00)
V8	0.953 (24.21)

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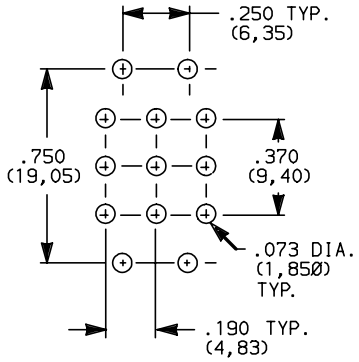
8020 Series
Snap-acting Momentary Pushbutton Switches

V2, V7, V8 Vertical Mount
8321SD3_GE 3PDT



Notes:
Not available with JXX actuators and I seal.

PC Mounting

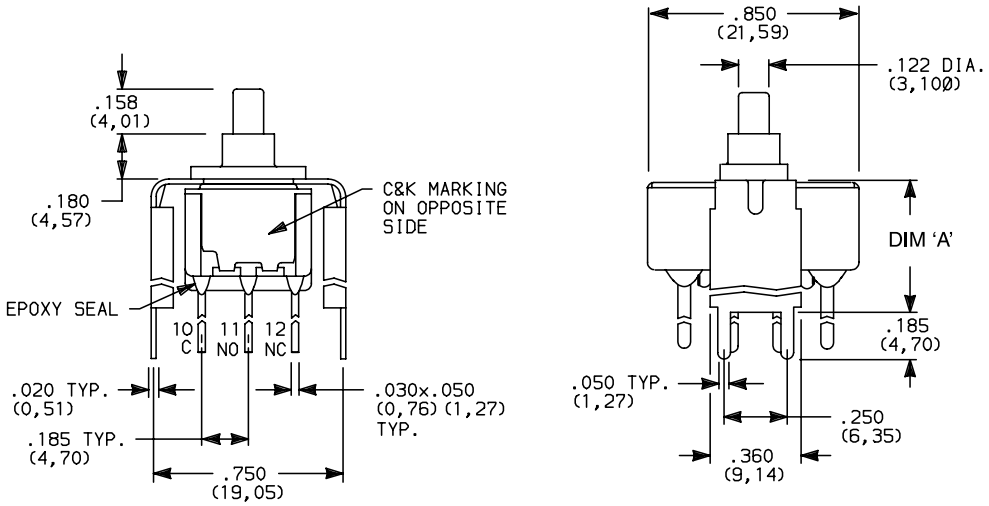


Option Code	DIM 'A'
V2	0.555 (14.10)
V7	0.630 (16.00)
V8	0.953 (24.21)

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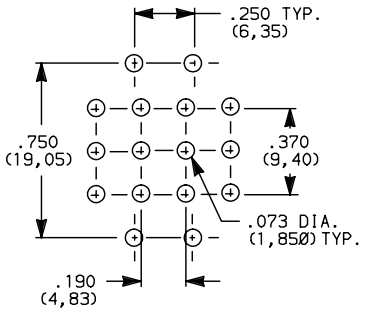
8020 Series
Snap-acting Momentary Pushbutton Switches

V2, V7, V8 Vertical Mount
8421SD3_GE 4PDT



Notes:
Not available with JXX actuators and I seal.

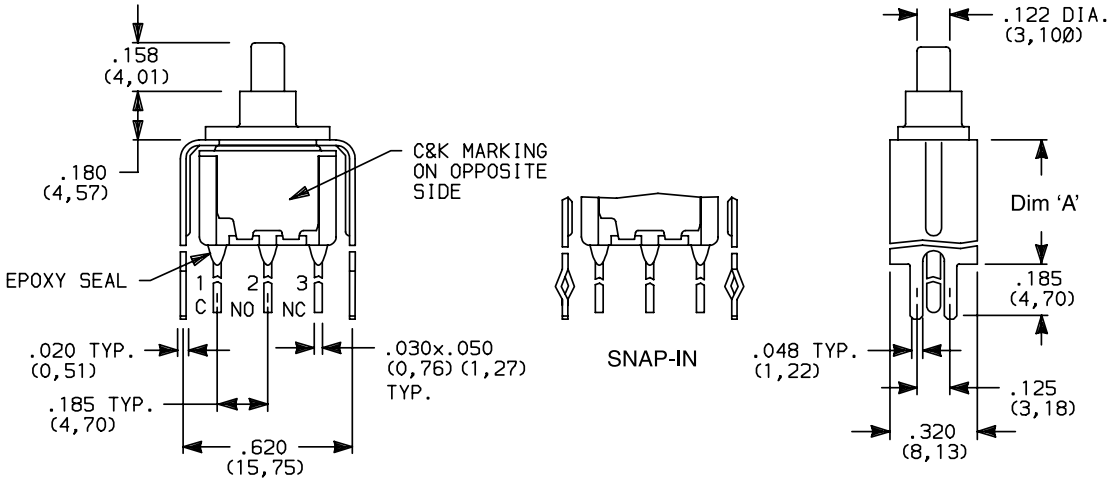
PC Mounting



Option Code	DIM 'A'
V2	0.555 (14.10)
V7	0.630 (16.00)
V8	0.953 (24.21)

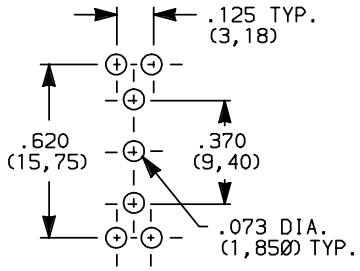
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V3, V4, V9 Vertical Mount, V-Bracket, V31 Vertical Mount, V-Bracket, Snap-in
8121SD3_GE SPDT



Notes:
Not available with JXX actuators and I seal.

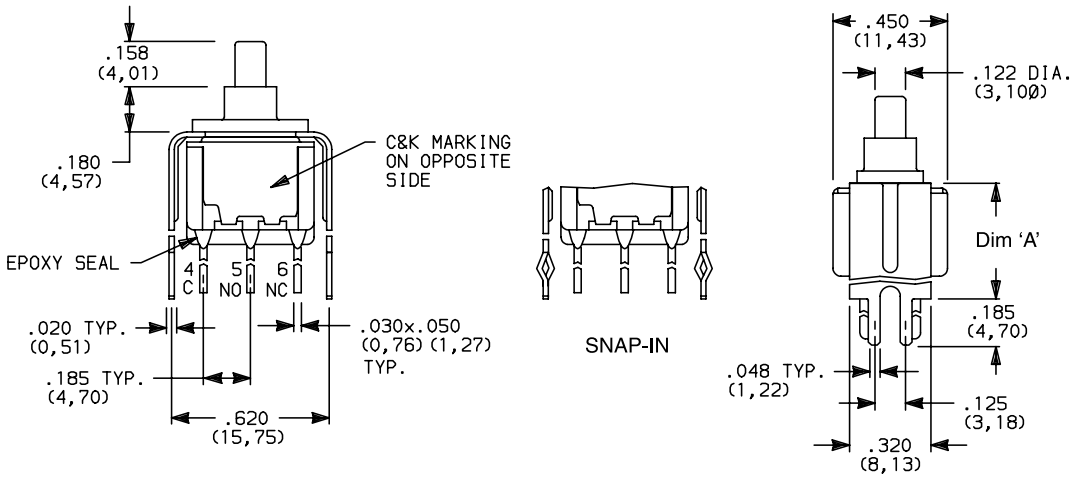
PC Mounting



Option Code	DIM 'A'
V3, V31	0.460 (11.68)
V4	0.630 (16.00)
V9	1.150 (29.21)

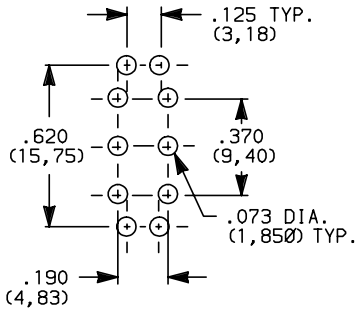
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V3, V4, V9 Vertical Mount, V-Bracket, V31 Vertical Mount, V-Bracket, Snap-in
8221SD3_GE DPDT



Notes:
Not available with JXX actuators and I seal.

PC Mounting

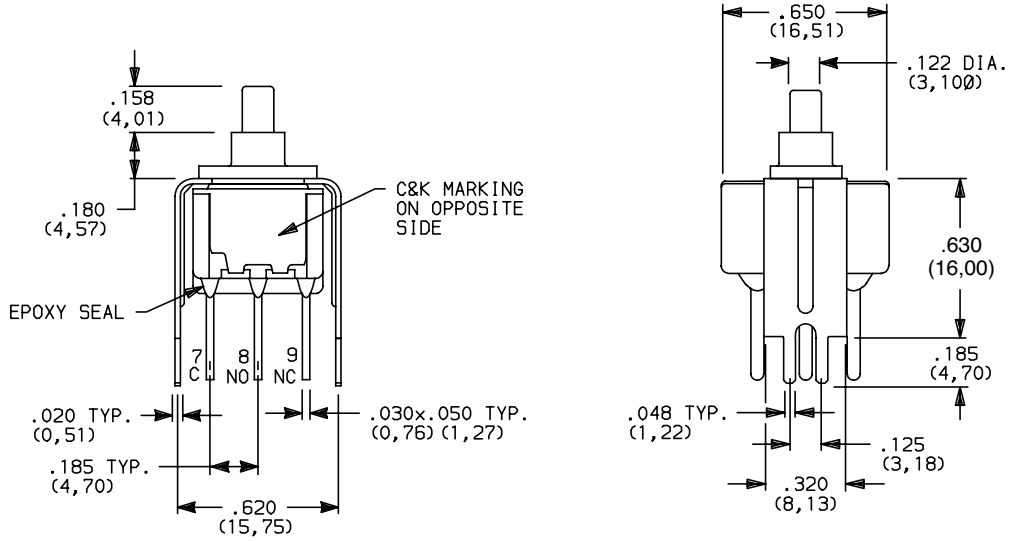


Option Code	DIM 'A'
V3, V31	0.460 (11.68)
V4	0.630 (16.00)
V9	1.150 (29.21)

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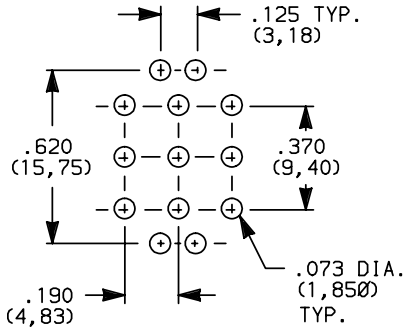
V4, V9 Vertical Mount, V-Bracket

8321SD3V4GE 3PDT



Notes:
Not available with JXX actuators and I seal.

PC Mounting

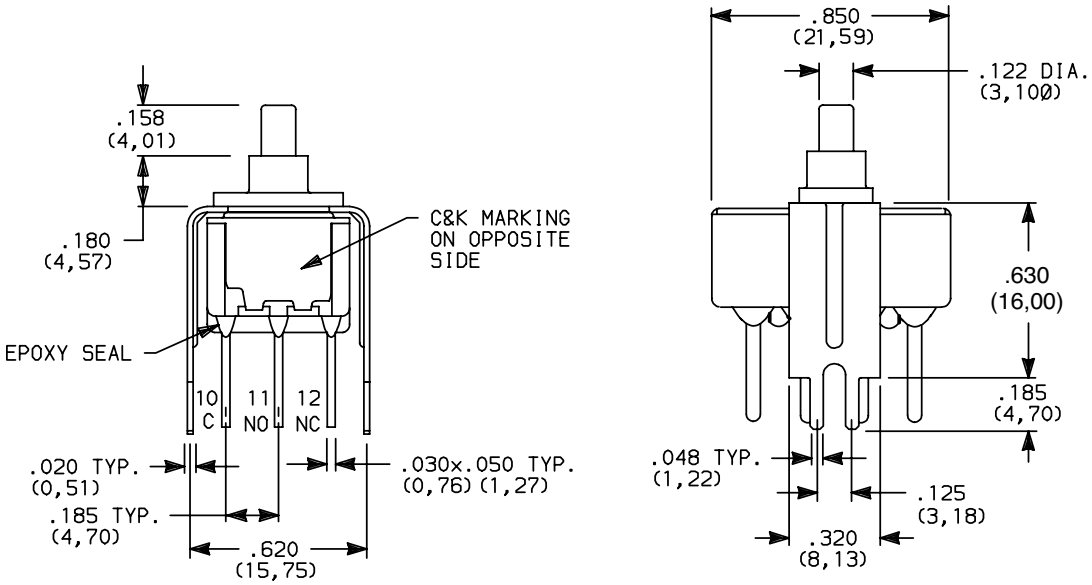


Option Code	DIM 'A'
V4	0.630 (16.00)
V9	1.150 (29.21)

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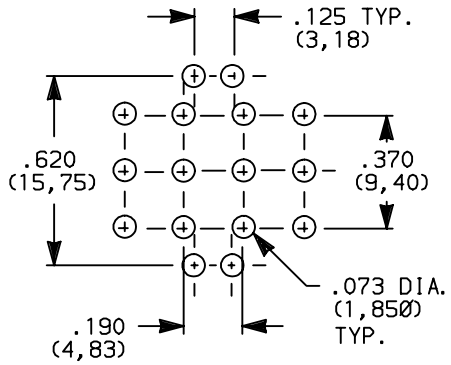
V4, V9 Vertical Mount, V-Bracket

8421SD3V4GE 4PDT



Notes:
Not available with JXX actuators and I seal.

PC Mounting



Option Code	DIM 'A'
V4	0.630 (16.00)
V9	1.150 (29.21)

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8020 Series
Snap-acting Momentary Pushbutton Switches

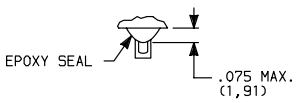
Contact Material

Option Code	Contact Material	Terminal Plating	Ratings	
B	Gold[1]	Gold[1]	Low Level/Dry Circuit	8x25 Models Only: 0.4 VA max. @ 20 V AC or DC max.
P		Matte-Tin[4]		
G	Gold over Silver[2,3]	Gold[3]	Low Level/Dry Circuit or Power	8x21 Models Only: 0.4 VA max @ 20 V AC or DC max. or 1 amp @ 120 V AC or 28 V DC.
R		Matte-Tin[4]		

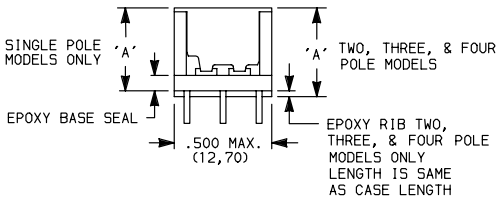
Notes:
See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.
1. Contacts & Terminals: Copper alloy, with gold plate over nickel plate.
2. N.O. and N.C. Contacts: Coin silver, with gold plate over nickel plate.
3. Common Contacts & All Terminals: Copper alloy, with gold plate over nickel plate.
4. Copper alloy, with matte tin over nickel plate.
Any models supplied with B, P, R or G contact material are RoHS compliant. U811-U841 models cULus with all options (except R, R2 terminations) when ordered with mandatory G or R contact material. cULus for 120Vac, 1A only. 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



E Epoxy Seal

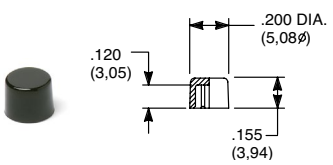


Notes:
Available with C, W-W4, Z, Z3 terminations only.

Option Code	DIM 'A'
SP	0.410 (10.41)
DP	0.440 (11.18)
3P	0.505 (12.83)
4P	0.505 (12.83)

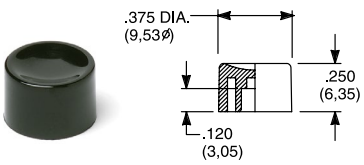
Available Hardware

Cap



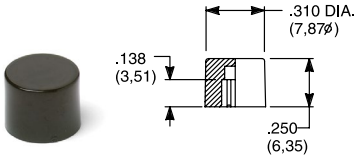
Part No.
708901000 White
708902000 Black
708903000 Red
708904000 Orange
708905000 Yellow
708906000 Green
708907000 Blue
708909000 Gray
Material: Nylon
Finish: Gloss

Cap



Part No.
752701000 White
752702000 Black
752703000 Red
752704000 Orange
752705000 Yellow
752706000 Green
752707000 Blue
752709000 Gray
Material: Nylon
Finish: Gloss

Cap

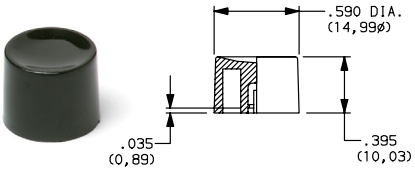


Part No.
801801000 White
801802000 Black
801803000 Red
801804000 Orange
801805000 Yellow
801806000 Green
801807000 Blue
801809000 Gray
Material: Nylon
Finish: Gloss

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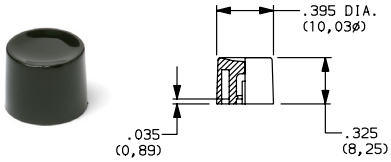
8020 Series
Snap-acting Momentary Pushbutton Switches

Cap, Snap Fitting Plunger



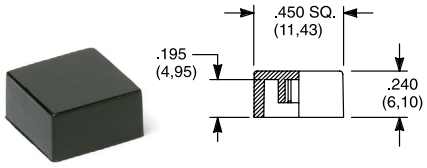
Part No.
452D01000 White
452D02000 Black
452D03000 Red
452D04000 Orange
452D05000 Yellow
452D06000 Green
452D07000 Blue
452D09000 Gray
Material: Nylon
Finish: Gloss

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 & 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.
6156022263 Black
Material: Nylon
Finish: Matte

Frame



Part No.
613302263 Black
Material: Nylon
Finish: Matte

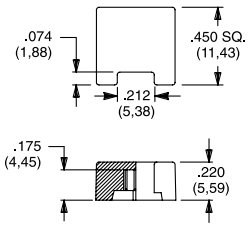
Fits Z3 Termination Female Connector



Part No.
530100000
Available in loose pieces.

Cap, J85, J95 Options Only





Part No.
459701000
459702000
459703000
459704000
459705000
459706000
459707000
459709000 Black
Material: Nylon
Finish: Matte

Notes: Additional nuts, locking rings and lockwashers available separately, see section "Technical Data and Additional Hardware". Other cap & frame colors available, consult Customer Service Center.

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8020 Series
Snap-acting Momentary Pushbutton Switches

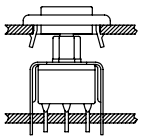
Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses 0.047-0.125 in. Material: Nylon. Finish: Matte.



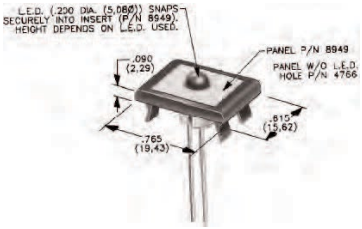
0.090" (2,29) PANEL THK.
PART NO. 432702263

0.125" (3,18) PANEL THK.
PART NO. 432802263
BLACK

Typical Application

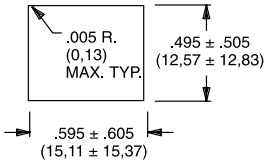


Panel Inserts

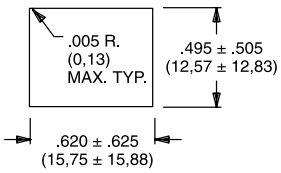


Panel Mounting

For part numbers
4325xxxxx, 4326xxxxx



For part numbers
4327xxxxx, 4328xxxxx



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.

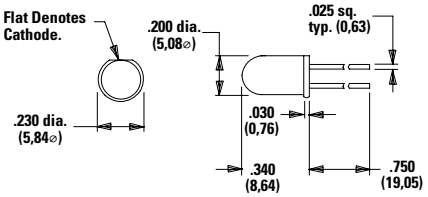
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LED Information

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 Rating 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[1]	0.5 mcd	2.1 V	10 mA	2.5 V	30 mA	75 mW
5	Yellow	4.0 mcd	2.1 V	20 mA	2.5 V	50 mA	125 mW

Process Information: Soldering to LED leads must be completed within 5 seconds at 500°F (260°C) maximum.
Caution: Circuit elements must limit forward current of LED to 50mA max. continuous.
Notes:
1. Extra-bright red LED available (typ. intensity 4.5 mcd), consult Customer Service Center. LEDs are not supplied with J82, J84 options. LED snaps into switch frame surrounding actuator and is wired externally.



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

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