Features/Benefits

- *Positive tactile feel*
- *Multi-positions available*
- *Wide variety of termination options*
- *Epoxy terminal seal compatible with bottom wash cleaning*
- *RoHS compliant models available*

Models Available

Typical Applications

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

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-43 for additional ratings.

ELECTRICAL LIFE: 60,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 50 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: $10^9 \Omega$ min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: 8X2X MODELS: –30°C to 75°C. U8X1 MODELS: –30°C to 65°C.

CAP INSTALLATION FORCE: 10 lbs. max. permissible.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

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

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

Materials

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

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

CAP & FRAME: Nylon, black, standard.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

N.O. & N.C. CONTACTS: 8X21, U8X1 MODELS: G contact material: Coin silver, with gold plate over nickel plate. See page A-43 for additional contact materials. 8X25 MODELS: B contact material: Copper alloy, with gold plate over nickel plate. See page A-43 for additional contact materials.

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

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

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

Build-A-Switch

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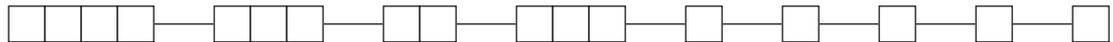
Switch Function

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
8421	4PDT On-Mom. 1 Amp
8425	4PDT On-Mom. 0.4VA

Note: UL models available, see page A-30 and A-31.

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 cap
J85	Snap-in w/frame & LED
J95	PC w/V-bracket & LED
L	Plunger
M	Snap-fitting plunger

Bushing ⌐

D9	.280" high, keyway
H	.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

Contact Material

B	Gold
P	Gold, matte-tin
G	Gold over silver
R	Gold over silver, matte-tin

Seal

E	Epoxy
I	Epoxy potted base

Cap Color

2	Black	**4**	Orange
NONE	Models without caps	**5**	Yellow
		6	Green
1	White	**7**	Blue
3	Red	**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

Terminations

A	Right angle, PC thru-hole	**A4**	Right angle, PC thru-hole, reversed terminals
AV2	Vertical right angle, PC thru-hole	**A6**	Right angle, PC thru-hole
C	PC Thru-hole	**AV1**	Vertical right angle, PC thru-hole
Z	Solder lug	**AV3**	Vertical right angle, snap-in, PC thru-hole
A2	Right angle, PC thru-hole	**R**	Right angle with PCB
A3	Right angle, snap-in, PC thru-hole	**R2**	Right angle with PCB, reversed terminals

V2	.555" high, V-bracket	**V31**	.460" high, snap-in V-bracket
V3	.460" high, V-bracket	**V61**	.460" high, snap-in V-bracket
V4	.630" high, V-bracket	**W**	.750" long, wire wrap
V6	.460" high, V-bracket	**W1**	.964" long, wire wrap
V7	.630" high, V-bracket	**W3**	.425" long, wire wrap
V8	.953" high, V-bracket	**W4**	1.062" long, wire wrap
V9	1.150" high, V-bracket	**Z3**	Quick connect

29 Aug 18

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

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	
			C&K marking on opposite side		C&K marking on opposite side		
SP	**8121**	**U811**	ON	MOM.	1-3	1-2	1 (COMM) 3 2 SPDT
	8125		ON	MOM.			

SPDT

Part number shown: 8121SHZGE

Terminal Nos. For Reference Only

DP	**8221**	**U821**	ON	MOM.	1-3,4-6	1-2,4-5	1 (COMM) 4 3 2 6 5 DPDT
	8225		ON	MOM.			

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	1 4 (COMM) 7 3 2 6 5 9 8 3PDT
	8325		ON	MOM.			

3PDT

Part number shown: 8321SHZGE
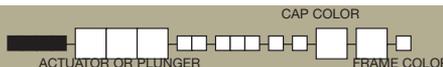
Terminal Nos. For Reference Only

MOM. = Momentary

*U811 thru U841 model numbers ℝ𝕌ₙₛ 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.

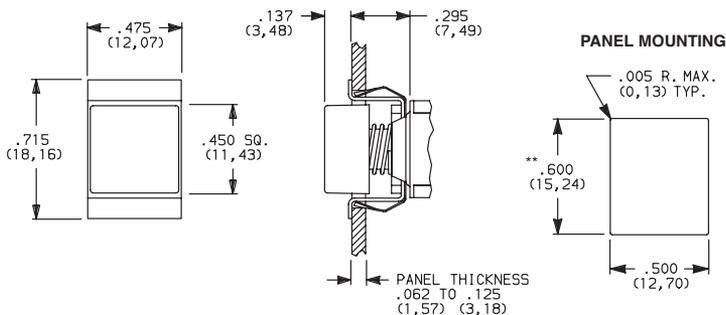8X21 and U8X1 models must be ordered with G or R contact material.

Third Angle Projection

C&K

29 Aug 18

A-30

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

www.ckswitches.com

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	1 —•— 2 4 (COMM) —•— 5 7 —•— 8 10 —•— 11
	8425		ON	MOM.			3 • 6 • 9 • 12 • 4PDT

4PDT

C&K MARKING ON OPPOSITE SIDE
EPOXY SEAL
1/4±40 UNS-2A
.122 DIA. (3,10Ø)
.060 (1,52)
.030 x .080 TYP. (0,76) (2,03)
.185 TYP (4,70)
.218 (5,54)
.250 (6,35)
.475 (12,07)
.155 (3,94)
.040 TYP. (1,02)
.190 TYP. (4,83)
.500 (12,70)
.850 (21,59)

12 9 6 3 NC
11 8 5 2 NO
10 7 4 1 COMM.

Terminal Nos.
For Reference Only
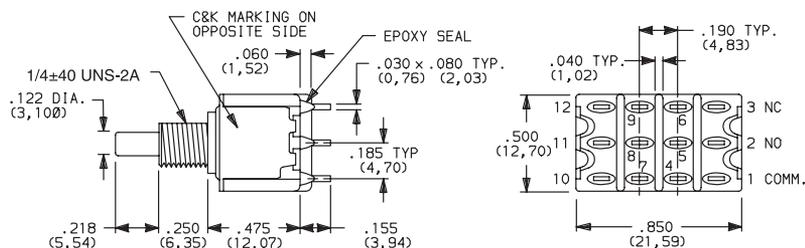
Part number shown: 8421SHZGE

MOM. = Momentary

* U811 thru U841 model numbers **c UL us** 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

CAP COLOR
ACTUATOR OR PLUNGER
FRAME COLOR

J80 SNAP-IN

.475 (12,07)
.137 (3,48)
.295 (7,49)
.715 (18,16)
.450 SQ. (11,43)

PANEL MOUNTING
.005 R. MAX. (0,13) TYP.
** .600 (15,24)
.500 (12,70)

PANEL THICKNESS .062 TO .125 (1,57) (3,18)

NOTE: No frame color choice required.

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

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.

J81 SNAP-IN WITH FRAME

.615 (15,62)
.090 (2,29)
.280 (7,11)
.062 (1,57)
.765 (19,43)
.450 SQ. (11,43)

PANEL MOUNTING
.005 R. MAX. (0,13) TYP.
** .600 (15,24)
.500 (12,70)

PANEL THICKNESS .047 TO .125 (1,19) (3,18)
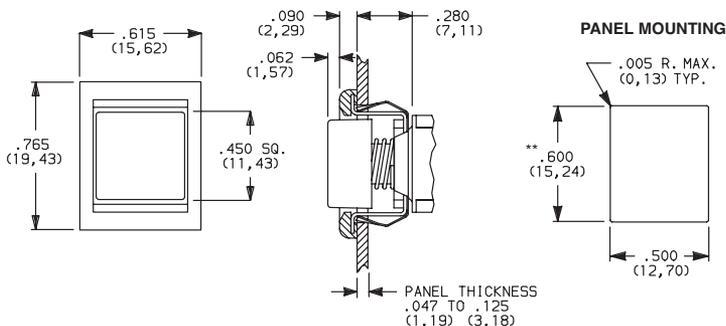
NOTE: Available with C, W-W4, Z or Z3 terminations and SPDT and DPDT models only.

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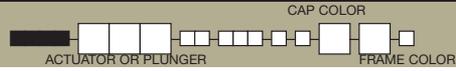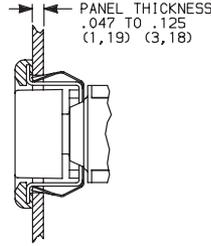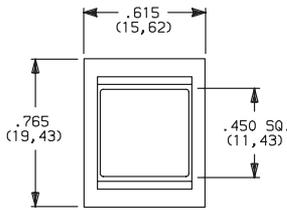
Third Angle Projection

C&K

29 Aug 18

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change
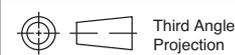
8020 Series
Snap-acting Momentary Pushbutton Switches

CAP COLOR

ACTUATOR OR PLUNGER — FRAME COLOR

J83   SNAP-IN WITH FRAME AND FLUSH CAP
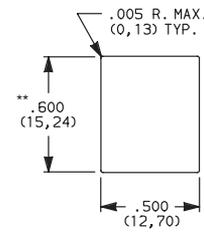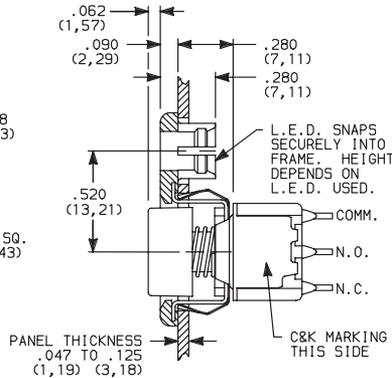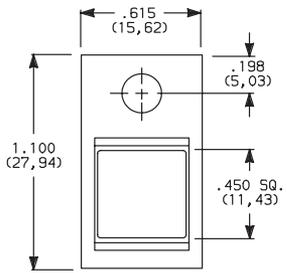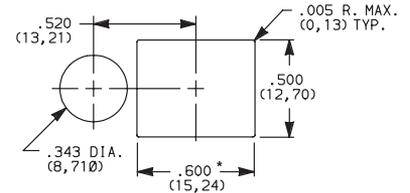
.615
(15,62)

.765
(19,43)

.450 SQ.
(11,43)

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

PANEL MOUNTING

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

** .600
(15,24)

.500
(12,70)

J82   SNAP-IN WITH FRAME FOR LED

.062
(1,57)

.090
(2,29)

.280
(7,11)

.280
(7,11)

.615
(15,62)

.198
(5,03)

1.100
(27,94)

.450 SQ.
(11,43)

.520
(13,21)

L.E.D. SNAPS
SECURELY INTO
FRAME. HEIGHT
DEPENDS ON
L.E.D. USED.

COMM.

N.O.

N.C.

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

C&K MARKING
THIS SIDE

PANEL MOUNTING

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

.520
(13,21)

.500
(12,70)

.343 DIA.
(8,71Ø)

.600 *
(15,24)

* 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
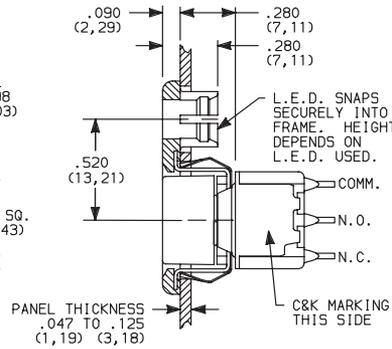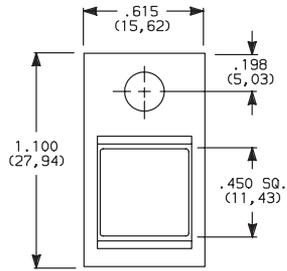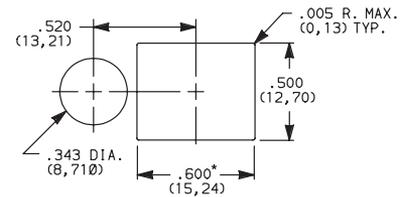
.090
(2,29)

.280
(7,11)

.280
(7,11)

.615
(15,62)

.198
(5,03)

1.100
(27,94)

.450 SQ.
(11,43)

.520
(13,21)

L.E.D. SNAPS
SECURELY INTO
FRAME. HEIGHT
DEPENDS ON
L.E.D. USED.

COMM.

N.O.

N.C.

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

C&K MARKING
THIS SIDE

PANEL MOUNTING

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

.520
(13,21)

.500
(12,70)

.343 DIA.
(8,71Ø)

.600*
(15,24)

* 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
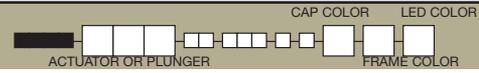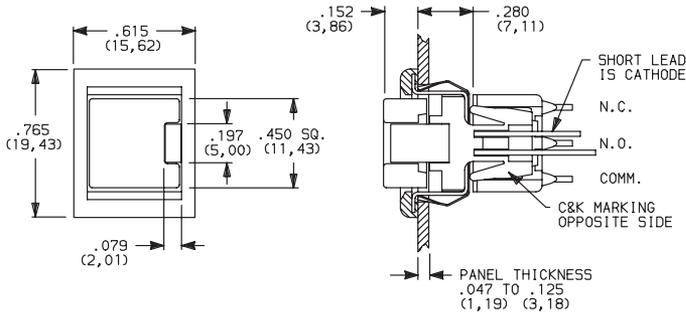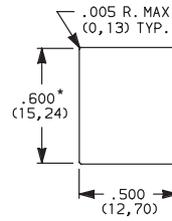Projection

C&K

29 Aug 18

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

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ACTUATOR—SNAP-IN FRONT MOUNT

ACTUATOR OR PLUNGER · CAP COLOR · LED COLOR · FRAME COLOR

J85 SNAP-IN WITH FRAME AND LED

.615 (15,62)
.765 (19,43)
.079 (2,01)
.152 (3,86)
.280 (7,11)
.197 (5,00)
.450 SQ. (11,43)

SHORT LEAD IS CATHODE
N.C.
N.O.
COMM.
C&K MARKING OPPOSITE SIDE

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

PANEL MOUNTING

.005 R. MAX. (0,13) TYP.
.600* (15,24)
.500 (12,70)

* 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

ACTUATOR OR PLUNGER · CAP COLOR · LED COLOR
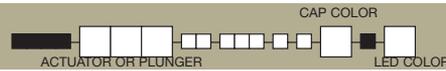
J95 PC WITH V-BRACKET AND LED

.445 (11,30)
.466 (11,84)
.197 (5,00)
.450 SQ. (11,43)
.079 (2,01)

SHORT LEAD IS CATHODE
N.C.
N.O.
COMM.
C&K MARKING OPPOSITE SIDE

PC MOUNTING

.125 TYP. (3,18)
.187 (4,75)
CATHODE
.100 (2,54)
N.C.
N.O.
COMM.
.620 (15,75)
.370 (9,40)
.043 DIA. (1,09Ø) 2PL
.073 DIA. (1,85Ø) 7PL
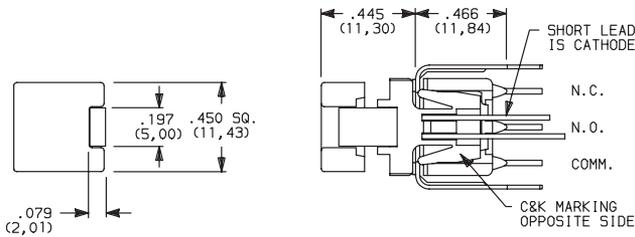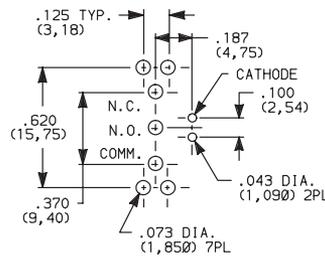
8121J95V3GE23
SPST

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.
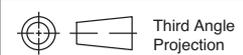
C&K

29 Aug 18

Third Angle Projection

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

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Pushbutton

A

PLUNGER

ACTUATOR OR PLUNGER
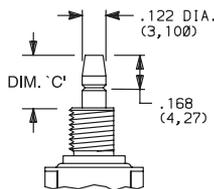
S PLUNGER

.122 DIA.
(3,100)

DIM. 'A'

AVAILABLE BUSHINGS	DIM. 'A' FOR C, W-W4, Z & Z3 TERMINATIONS	DIM. 'A' FOR A, A2, A3, A4, A6, AV-A3, R & R2 TERMINATIONS	DIM. 'A' FOR V3-V61 TERMINATIONS
D, D9	.244 (6,20)	.228 (5,79)	.224 (5,69)
H, H9	.218 (5,54)	.202 (5,13)	.198 (5,03)
Y, Y9	.203 (5,16)	.187 (4,75)	.183 (4,65)
Y3	(5,54)	(5,13)	(5,03)
Y4	.185 (4,70)	.169 (4,29)	.165 (4,19)
D2, D8	N/A	.232 (5,89)	.228 (5,79)
D3	N/A	.162 (4,11)	.158 (4,01)
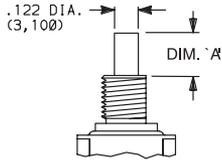
NONE NO PLUNGER CHOICE REQUIRED
(JXX ACTUATORS)

L PLUNGER

.122 DIA.
(3,100)
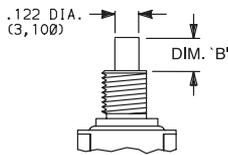
DIM. 'B'

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

M SNAP-FITTING PLUNGER

.122 DIA.
(3,100)

DIM. 'C'

.168
(4,27)

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

N/A = NOT AVAILABLE

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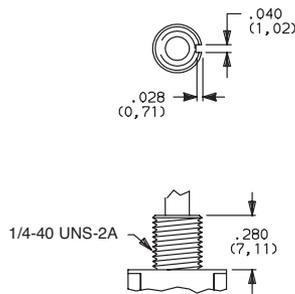
BUSHING

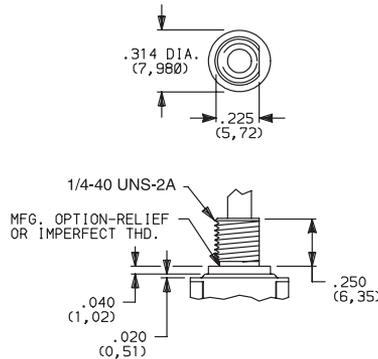**NONE** NO BUSHING CHOICE REQUIRED
(JXX ACTUATORS)

D .280" HIGH THREADED, KEYWAY

D9 .28034" HIGH UNTHREADED, KEYWAY

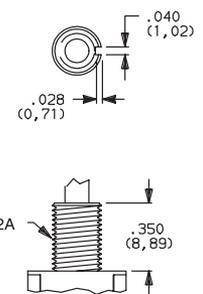**H** .250"34 HIGH THREADED, FLAT

H9 .250"34 HIGH UNTHREADED, FLAT

Y .350" HIGH THREADED, KEYWAY

Y9 .350" HIGH UNTHREADED, KEYWAY

.040
(1,02)

.028
(0,71)

.314 DIA.
(7,980)

.225
(5,72)

.040
(1,02)

.028
(0,71)

1/4-40 UNS-2A

.280
(7,11)

MFG. OPTION-RELIEF
OR IMPERFECT THD.

1/4-40 UNS-2A

.250
(6,35)

.040
(1,02)

.020
(0,51)

1/4-40 UNS-2A

.350
(8,89)

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

H bushing standard with C, W-W4, Z or Z3 terminations.

H, H9 bushings not available on single pole models with A3-A6, R, R2 terminations.
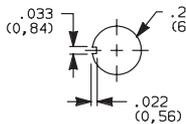
Will withstand 12 in./lbs. of torque with no distortion.

Third Angle Projection

C&K

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BUSHING

Y3 6.35mm THREADED, KEYWAY

(1,00)
(8,000)
(0,70)

(M6P 0.75 THD.)
MFG. OPTION-RELIEF OR IMPERFECT THD.
(6,35)
(1,02)
(0,51)

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.
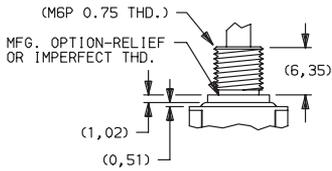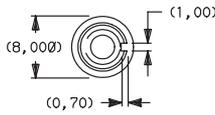
Y4 .378" HIGH THREADED, FLAT

.314 DIA. (7,980)
.225 (5,72)

1/4-40 UNS-2A
MFG. OPTION-RELIEF OR IMPERFECT THD.
.378 (9,60)
.040 (1,02)
.020 (0,51)
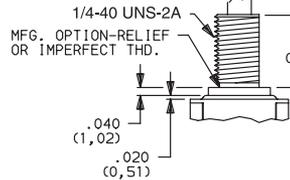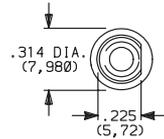
D2 .288" HIGH THREADED, FLAT
D8 .288" HIGH UNTHREADED, FLAT
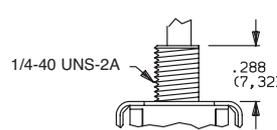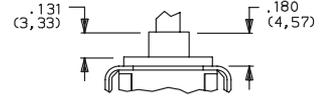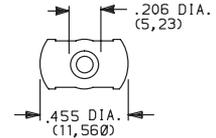
.225 (5,72)

1/4-40 UNS-2A
.288 (7,32)

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

D3 .180" HIGH UNTHREADED

.206 DIA. (5,23)
.455 DIA. (11,560)

.131 (3,33)
.180 (4,57)

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.
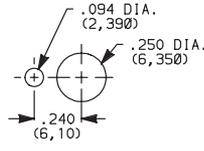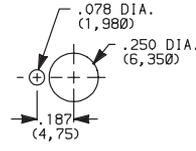
PANEL MOUNTING

1/4 INCH BUSHING

.033 (0,84)
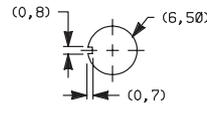.250 DIA. (6,350)
.022 (0,56)

Without locking ring

.250 DIA. (6,350)
.234 (5,94)
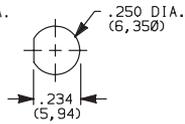
With standard locking ring

.094 DIA. (2,390)
.250 DIA. (6,350)
.240 (6,10)

.078 DIA. (1,980)
.250 DIA. (6,350)
.187 (4,75)

With small locking ring

METRIC BUSHING

(0,8)
(6,50)
(0,7)

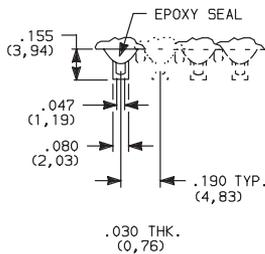**Without locking ring**

(2,40)
(6,50)
(6,3)
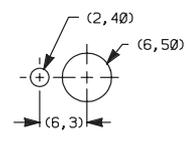
With locking ring

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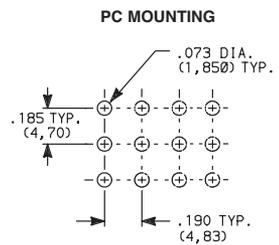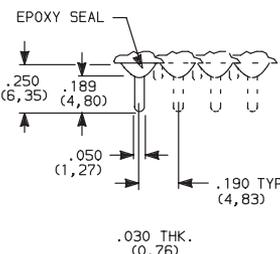
TERMINATIONS

Z SOLDER LUG

EPOXY SEAL
.155 (3,94)
.047 (1,19)
.080 (2,03)
.190 TYP. (4,83)
.030 THK. (0,76)

SPDT thru 4PDT

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

C PC THRU-HOLE

EPOXY SEAL
.250 (6,35)
.189 (4,80)
.050 (1,27)
.190 TYP. (4,83)
.030 THK. (0,76)

PC MOUNTING

.073 DIA. (1,850) TYP.
.185 TYP. (4,70)
.190 TYP. (4,83)

SPDT thru 4PDT

Not available with J95 actuator option.

Z3 QUICK CONNECT

EPOXY SEAL
.250 (6,35)
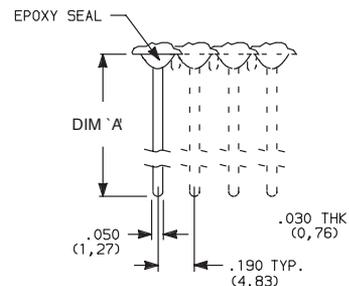.189 (4,80)
.062 (1,57)
.030 THK. (0,76)
.190 TYP. (4,83)
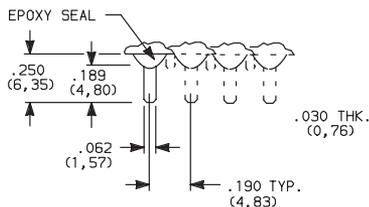
SPDT thru 4PDT

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

EPOXY SEAL
DIM 'A'
.050 (1,27)
.030 THK. (0,76)
.190 TYP. (4,83)

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

Not available with J95 actuator option.

SPDT thru 4PDT

Third Angle Projection

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

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TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE

8121SD9AGE
SPDT

.500
(12,70)

.270
(6,86)

.030 TYP.
(0,76)

.125
(3,18)

.122 DIA.
(3,100)

A

EPOXY SEAL

A

.135
(3,43)

.050 TYP.
(1,27)

.228
(5,79)

.288
(7,32)

.500
(12,70)

.197
(5,00)

.062
(1,57)

.202
(5,13)

.298
(7,57)

.138
(3,51)

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

Part Number 8121SH9AGE

.185 TYP.
(4,70)

COMM.   N.O. N.C.

1   2   3

.048 TYP.
(1,22)

.200
(5,08)

SECTION A-A

Terminal Nos.
For Reference Only.

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

PC MOUNTING

.048 TYP.
(1,22)

.070 TYP.
(1,78)

.185 TYP.
(4,70)

3   2   1

.500
(12,70)

.073 DIA.
(1,850) TYP.

.200
(5,08)

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

A RIGHT ANGLE, PC THRU-HOLE

8221SD9AGE
DPDT

.500
(12,70)

.450
(11,43)

.030 TYP.
(0,76)

.125
(3,18)

.122 DIA.
(3,100)

A

EPOXY SEAL

A

.225
(5,72)

.050 TYP.
(1,27)

.228
(5,79)

.288
(7,32)

.500
(12,70)

.150
(3,81)

.185 TYP.
(4,70)

COMM.   N.O. N.C.

4   5   6

1   2   3

.048 TYP.
(1,22)

.200
(5,08)

SECTION A-A

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

PC MOUNTING

.048 TYP.
(1,22)

.070 TYP.
(1,78)

.185 TYP.
(4,70)

.150
(3,81)

6   5   4

3   2   1

.500
(12,70)

.073 DIA.
(1,850) TYP.

.200
(5,08)

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

Third Angle
Projection

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

TERMINATIONS

A   RIGHT ANGLE, PC THRU-HOLE

PC MOUNTING

SECTION A-A

8321SD9AGE
3PDT

Not available with JXX actuators and I seal option.
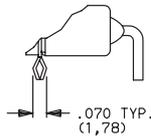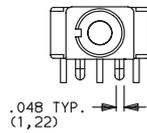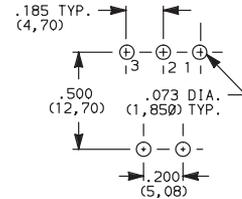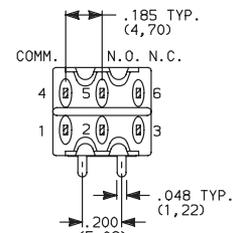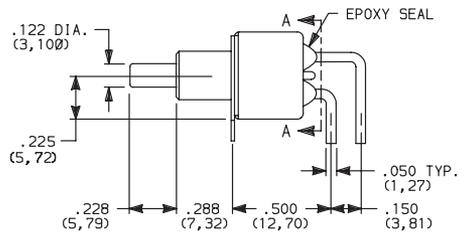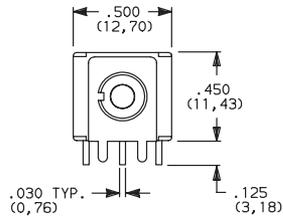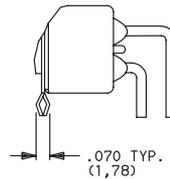Terminal bend radii and lead-in manufacturing option.
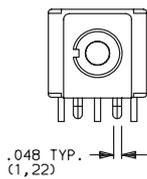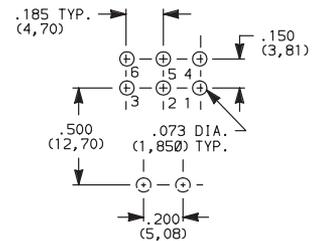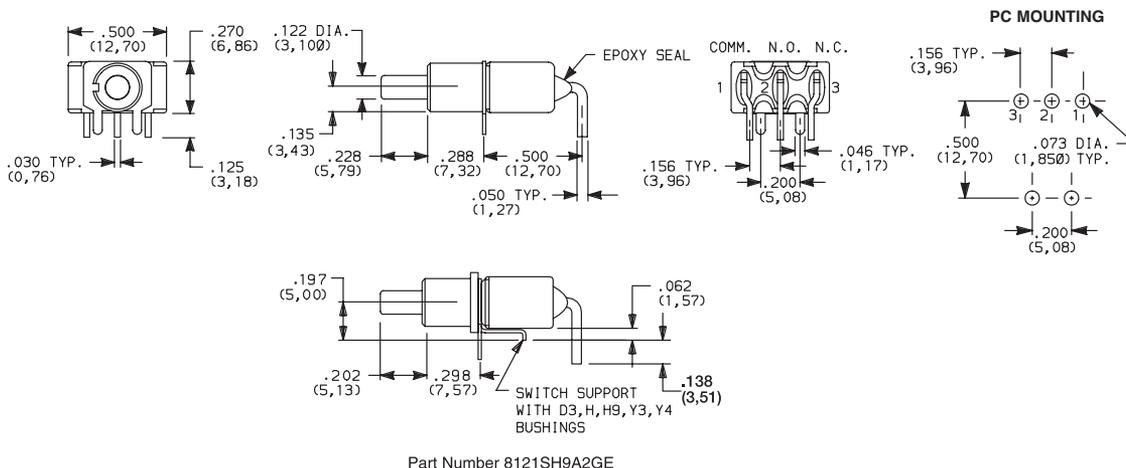
A2   RIGHT ANGLE, PC THRU-HOLE
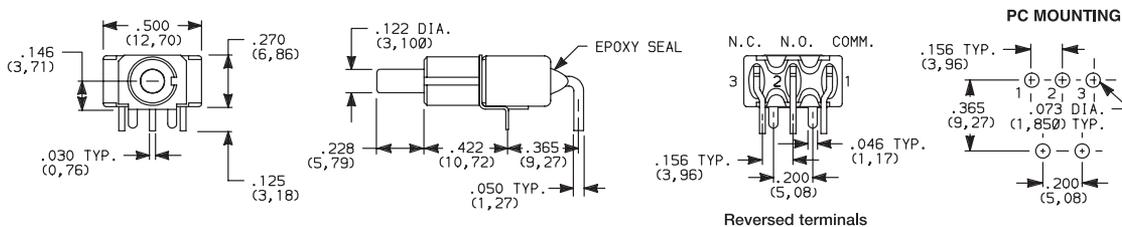

PC MOUNTING

8121SD9A2GE
SPDT

Part Number 8121SH9A2GE

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

A4   RIGHT ANGLE, PC THRU-HOLE, REVERSED TERMINALS

PC MOUNTING

Reversed terminals

8121SD9A4GE
SPDT

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.

Third Angle Projection

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

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TERMINATIONS

A6 RIGHT ANGLE, PC THRU-HOLE

PC MOUNTING

.500 (12,70)
.146 (3,71)
.270 (6,86)
.030 TYP. (0,76)
.125 (3,18)

.122 DIA. (3,100)
EPOXY SEAL
.228 (5,79)
.422 (10,72)
.365 (9,27)
.050 TYP. (1,27)

COMM. N.O. N.C.
1 2 3
.156 TYP. (3,96)
.046 TYP. (1,17)
.200 (5,08)

.156 TYP. (3,96)
.365 (9,27)
3 2 1
.073 DIA. (1,850) TYP.
.200 (5,08)

8121SD9A6GE
SPDT

Not available with JXX actuators, D3, H, H9, Y3, Y4 bushings and I seal.
Terminal bend radii and lead-in manufacturing option.
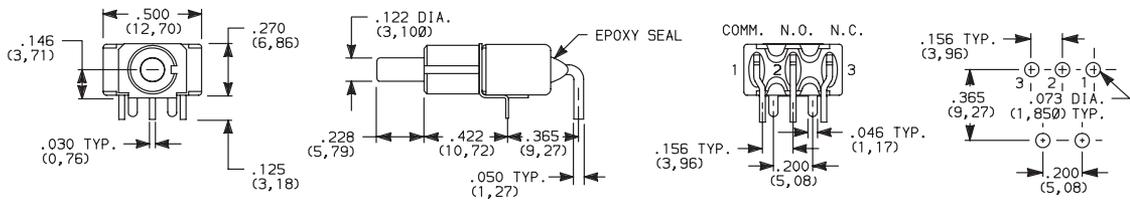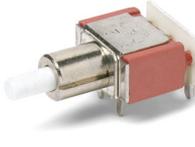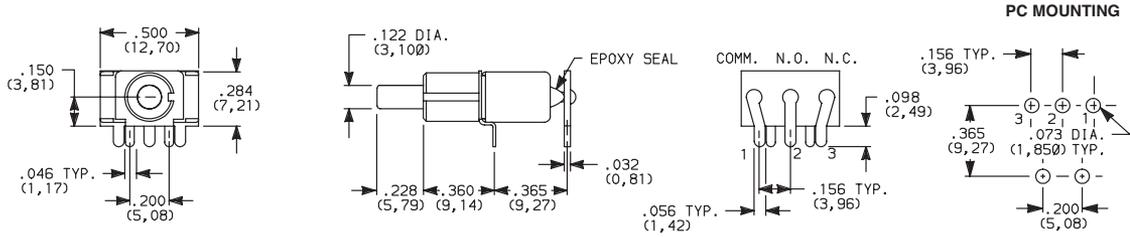
The A6 and R termination options are functionally identical and fit the same PC mounting pattern, The switches, however, are shifted relative to the mounting holes. The PC pattern must clear the switch support legs. Unlike the R, the A6 option is available with UL/CSA.

R RIGHT ANGLE WITH PCB

PC MOUNTING

.500 (12,70)
.150 (3,81)
.284 (7,21)
.046 TYP. (1,17)
.200 (5,08)

.122 DIA. (3,100)
EPOXY SEAL
.228 (5,79)
.360 (9,14)
.365 (9,27)
.032 (0,81)

COMM. N.O. N.C.
1 2 3
.098 (2,49)
.156 TYP. (3,96)
.056 TYP. (1,42)

.156 TYP. (3,96)
.365 (9,27)
3 2 1
.073 DIA. (1,850) TYP.
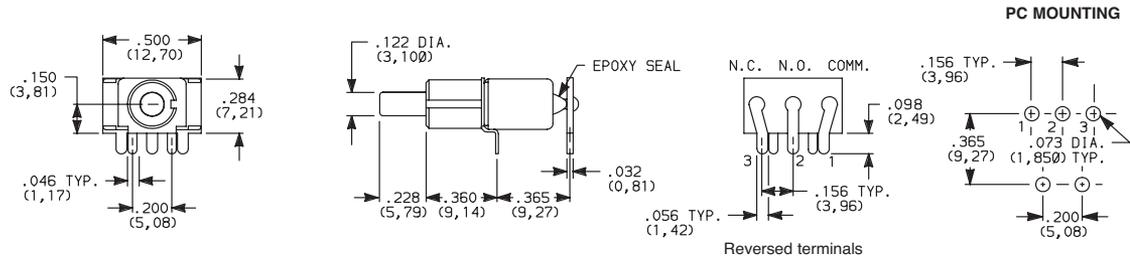.200 (5,08)

8121SD9RGE
SPDT

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

PC MOUNTING

.500 (12,70)
.150 (3,81)
.284 (7,21)
.046 TYP. (1,17)
.200 (5,08)

.122 DIA. (3,100)
EPOXY SEAL
.228 (5,79)
.360 (9,14)
.365 (9,27)
.032 (0,81)

N.C. N.O. COMM.
3 2 1
.098 (2,49)
.156 TYP. (3,96)
.056 TYP. (1,42)
Reversed terminals

.156 TYP. (3,96)
.365 (9,27)
1 2 3
.073 DIA. (1,850) TYP.
.200 (5,08)

8121SD9R2GE
SPDT

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

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Third Angle Projection

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

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TERMINATIONS

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

EPOXY SEAL
.122 DIA. (3,100)
.250 (6,35)
.228 (5,79)
.288 (7,32)
.500 (12,70)
.150 TYP. (3,81)
.125 (3,18)
.030 TYP. (0,76)
.050 TYP. (1,27)

.270 (6,86)
N.C. 3
N.O. 2
COMM. 1
.500 (12,70)
.048 TYP. (1,22)
.200 (5,08)

SECTION A-A

**8121SD9AV2GE
SPDT**

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

.048 TYP. (1,22)
.070 TYP. (1,78)

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

.15 (3,8)
.33 TYP. (8,4)

PC MOUNTING

.150 TYP. (3,81)
3
2
1
.500 (12,70)
.073 DIA. (1,850) TYP.
.200 (5,08)

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

EPOXY SEAL
.122 DIA. (3,100)
.250 (6,35)
.228 (5,79)
.288 (7,32)
.500 (12,70)
.150 TYP. (3,81)
.125 (3,18)
.030 TYP. (0,76)
.050 TYP. (1,27)
TERM. WIDTH
.190 (4,83)

.450 (11,43)
N.C. 6
N.O. 5
COMM. 4
3
2
1
.500 (12,70)
.048 TYP. (1,22)
.200 (5,08)

SECTION A-A

**8221SD9AV2GE
DPDT**

AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH
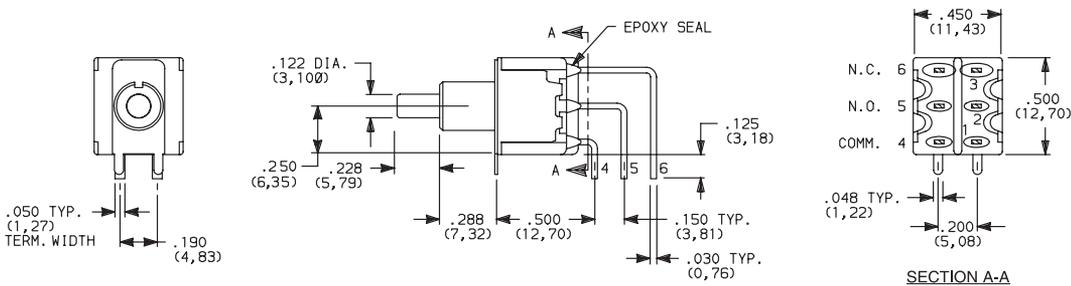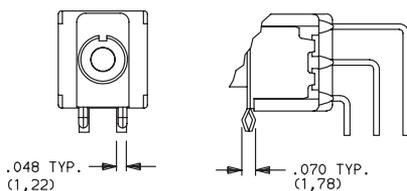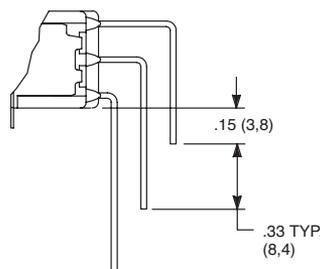
.048 TYP. (1,22)
.070 TYP. (1,78)

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

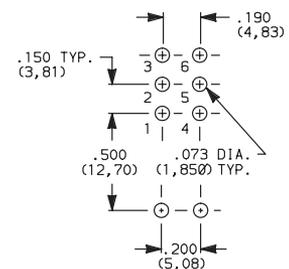.15 (3,8)
.33 TYP. (8,4)

PC MOUNTING

.190 (4,83)
.150 TYP. (3,81)
3 6
2 5
1 4
.500 (12,70)
.073 DIA. (1,850) TYP.
.200 (5,08)

Third Angle Projection

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

A

Pushbutton

TERMINATIONS

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

EPOXY SEAL

.122 DIA.
(3,10Ø)

.125
(3,18)

.250
(6,35)

.228
(5,79)

.288
(7,32)

.565
(14,35)

.150 TYP.
(3,81)

.030 TYP.
(0,76)

A ◄ A

7 8 9

.050 TYP.
(1,27)

.190 TYP.
(4,83)

.650
(16,51)

N.C. 9
N.O. 8
COMM. 7

6 3
5 4 2

.500
(12,70)

.048 TYP.
(1,22)

.200
(5,08)

SECTION A-A

8321SD9AV2GE
3PDT

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

PC MOUNTING

.190 TYP.
(4,83)

.150 TYP.
(3,81)

3 6 9
2 5 8
1 4 7

.565
(14,35)

.073 DIA.
(1,85Ø) TYP.

.200
(5,08)

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

.048 TYP.
(1,22)

.070 TYP.
(1,78)

.15 (3,8)

.33 TYP.
(8,4)

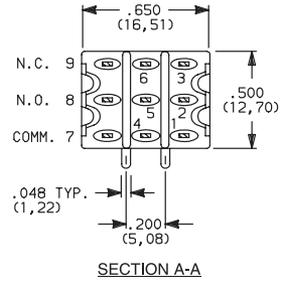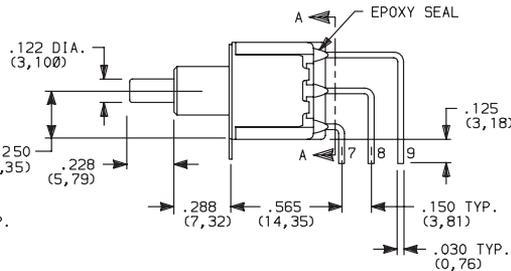Not available with JXX actuators and I seal.
Terminal bend radii and lead-in manufacturing option.

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

EPOXY SEAL

.122 DIA.
(3,10Ø)

.125
(3,18)

.250
(6,35)

.228
(5,79)

.050 TYP.
(1,27)
TERM. WIDTH

.190 TYP.
(4,83)

.288
(7,32)

.565
(14,35)

.150 TYP.
(3,81)

.030 TYP.
(0,76)

A ◄ A

10 11 12

.850
(21,59)

N.C. 12
N.O. 11
COMM. 10

9 6 3
8 5 2
7 4

.500
(12,70)

.048 TYP.
(1,22)

.200
(5,08)

SECTION A-A

8421SD9AV2GE
4PDT

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

PC MOUNTING

.190 TYP.
(4,83)

.150 TYP.
(3,81)

3 6 9 12
2 5 8 11
1 4 7 10

.565
(14,35)

.073 DIA.
(1,85Ø) TYP.

.200
(5,08)

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

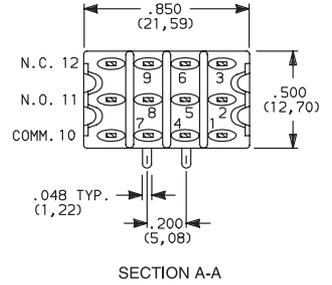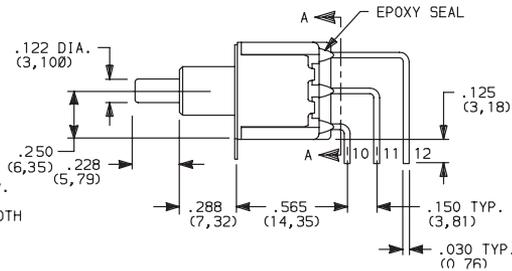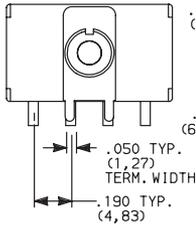.048 TYP.
(1,22)

.070 TYP.
(1,78)

.15 (3,8)

.33 TYP.
(8,4)

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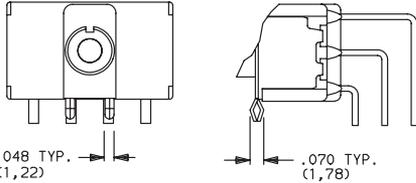Terminal bend radii and lead-in manufacturing option.

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

V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN

.158
(4,01)

.180
(4,57)

C&K MARKING
ON OPPOSITE
SIDE

EPOXY SEAL

1 2 3
C NO NC

.020 TYP.
(0,51)

.185 TYP.
(4,70)

.750
(19,05)

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

SNAP-IN

.050 TYP.
(1,27)

.360
(9,14)

.122 DIA.
(3,10Ø)

Dim 'A'

.185
(4,70)

.250
(6,35)

PC MOUNTING

.250 TYP.
(6,35)

.750
(19,05)

.370
(9,40)

.073 DIA.
(1,85Ø)
TYP.

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)

Third Angle
Projection

29 Aug 18

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

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TERMINATIONS

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

V61   VERTICAL MOUNT, V-BRACKET, SNAP-IN

.158 (4,01)

.180 (4,57)

C&K MARKING ON OPPOSITE SIDE

EPOXY SEAL

4 C   5 NO   6 NC

.020 TYP. (0,51)

.185 TYP. (4,70)

.750 (19,05)

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

SNAP-IN

.450 (11,43)

.122 DIA. (3,100)

Dim 'A'

.185 (4,70)

.050 TYP. (1,27)

.250 (6,35)

.360 (9,14)

PC MOUNTING

.250 TYP. (6,35)

.750 (19,05)

.370 (9,40)

.073 DIA. (1,850) TYP.

.190 (4,83)

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

.158 (4,01)

.180 (4,57)

C&K MARKING ON OPPOSITE SIDE

EPOXY SEAL

7 C   8 NO   9 NC

.020 TYP. (0,51)

.185 TYP. (4,70)

.750 (19,05)

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

.650 (16,51)

.122 DIA. (3,100)

DIM 'A'

.185 (4,70)

.050 TYP. (1,27)

.250 (6,35)

.360 (9,14)

PC MOUNTING

.250 TYP. (6,35)

.750 (19,05)

.370 (9,40)

.073 DIA. (1,850) TYP.

.190 TYP. (4,83)

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

.158 (4,01)

.180 (4,57)

C&K MARKING ON OPPOSITE SIDE

EPOXY SEAL

10 C   11 NO   12 NC

.020 TYP. (0,51)

.185 TYP. (4,70)

.750 (19,05)

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

.850 (21,59)

.122 DIA. (3,100)

DIM 'A'

.185 (4,70)

.050 TYP. (1,27)

.250 (6,35)

.360 (9,14)

PC MOUNTING

.250 TYP. (6,35)

.750 (19,05)

.370 (9,40)

.073 DIA. (1,850) TYP.

.190 (4,83)

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.

Third Angle Projection

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

TERMINATIONS

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN

.158 (4,01)
.180 (4,57)
EPOXY SEAL
.020 TYP. (0,51)
.185 TYP. (4,70)
.620 (15,75)
.030x.050 (0,76) (1,27) TYP.
C&K MARKING ON OPPOSITE SIDE
1 C 2 NO 3 NC

SNAP-IN

.122 DIA. (3,100)
Dim 'A'
.185 (4,70)
.048 TYP. (1,22)
.125 (3,18)
.320 (8,13)

PC MOUNTING
.125 TYP. (3,18)
.620 (15,75)
.370 (9,40)
.073 DIA. (1,850) TYP.

8121SD3__GE
SPDT

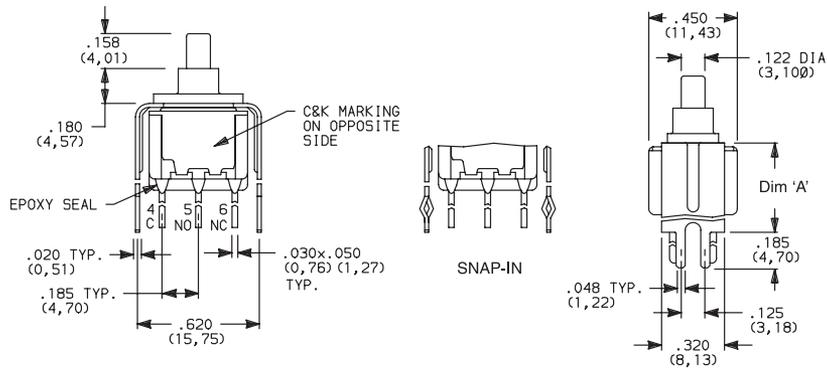| OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4	.630 (16,00)
V9	1.150 (29,21)

Not available with J8X actuators and I seal.

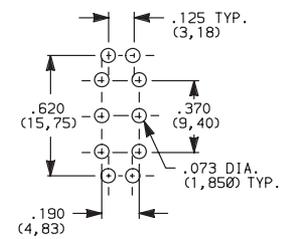**V3, V4, V9** VERTICAL MOUNT, V-BRACKET
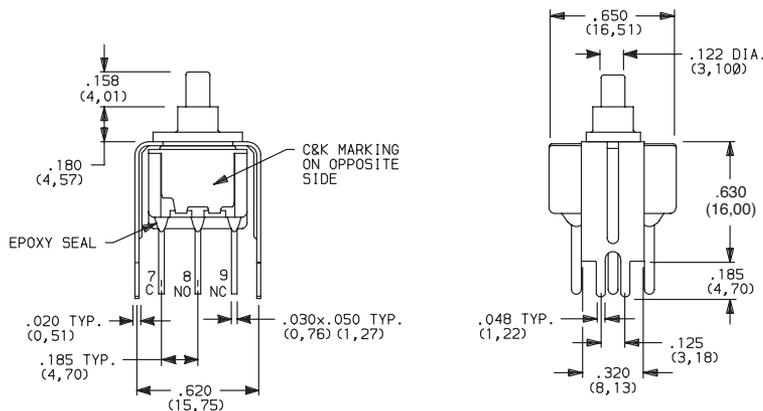
V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN

.158 (4,01)
.180 (4,57)
EPOXY SEAL
.020 TYP. (0,51)
.185 TYP. (4,70)
.620 (15,75)
.030x.050 (0,76) (1,27) TYP.
C&K MARKING ON OPPOSITE SIDE
4 C 5 NO 6 NC

SNAP-IN

.450 (11,43)
.122 DIA. (3,100)
Dim 'A'
.185 (4,70)
.048 TYP. (1,22)
.125 (3,18)
.320 (8,13)

PC MOUNTING
.125 TYP. (3,18)
.620 (15,75)
.370 (9,40)
.073 DIA. (1,850) TYP.
.190 (4,83)

8221SD3__GE
DPDT

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

Not available with J8X actuators and I seal.

V4, V9 VERTICAL MOUNT, V-BRACKET
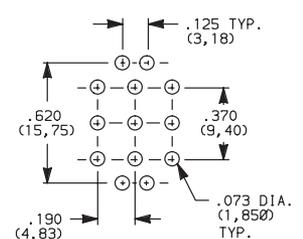
.158 (4,01)
.180 (4,57)
EPOXY SEAL
.020 TYP. (0,51)
.185 TYP. (4,70)
.620 (15,75)
.030x.050 TYP. (0,76) (1,27)
C&K MARKING ON OPPOSITE SIDE
7 C 8 NO 9 NC

.650 (16,51)
.122 DIA. (3,100)
.630 (16,00)
.185 (4,70)
.048 TYP. (1,22)
.125 (3,18)
.320 (8,13)

PC MOUNTING
.125 TYP. (3,18)
.620 (15,75)
.370 (9,40)
.073 DIA. (1,850) TYP.
.190 (4,83)

8321SD3V4GE
3PDT

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

Not available with JXX actuators and I seal.

Third Angle Projection

C&K

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A-42

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

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TERMINATIONS

V4, V9 VERTICAL MOUNT, V-BRACKET

.158 (4,01)
.180 (4,57)
C&K MARKING ON OPPOSITE SIDE
EPOXY SEAL
10 C   11 NO   12 NC
.020 TYP. (0,51)
.185 TYP. (4,70)
.030x.050 TYP. (0,76) (1,27)
.620 (15,75)

.850 (21,59)
.122 DIA. (3,100)
.630 (16,00)
.185 (4,70)
.048 TYP. (1,22)
.320 (8,13)
.125 (3,18)

PC MOUNTING
.125 TYP. (3,18)
.620 (15,75)
.370 (9,40)
.073 DIA. (1,850) TYP.
.190 (4,83)

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	GOLD [1]	GOLD [1]	LOW LEVEL/DRY CIRCUIT	8x25 MODELS ONLY: 0.4 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, U8X1 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]		

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

[1] ALL CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

[2] N.O. AND N.C. CONTACTS: Coin silver, with gold plate over nickel plate.

[3] COMMON CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

[4] TERMINALS: Copper alloy, with matte-tin over nickel plate.

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

U811-U841 models ®**Ul** **CP**® with all options (except R, R2 terminations) when ordered with mandatory G or R contact material.

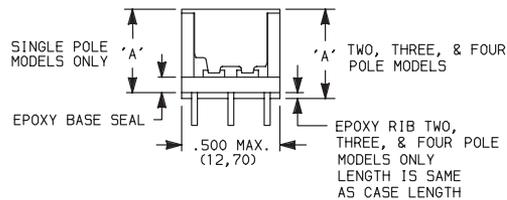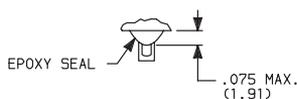B or P contact material must be ordered with 8X25 models.

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

EPOXY SEAL
.075 MAX. (1,91)

SINGLE POLE MODELS ONLY
'A'
EPOXY BASE SEAL
'A' TWO, THREE, & FOUR POLE MODELS
.500 MAX. (12,70)
EPOXY RIB TWO, THREE, & FOUR POLE MODELS ONLY LENGTH IS SAME AS CASE LENGTH

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.
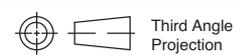
Third Angle Projection

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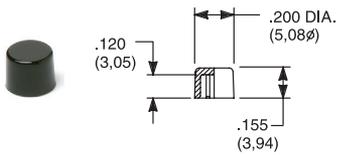*Specifications and dimensions subject to change*

AVAILABLE HARDWARE

Cap

.120
(3,05)

.200 DIA.
(5,08∅)

.155
(3,94)

PART NO.	
708901000	WHITE
708902000	BLACK
708903000	RED
708904000	ORANGE
708905000	YELLOW
708906000	GREEN
708907000	BLUE
708909000	GRAY

Material: Nylon
Finish: Gloss

Cap

.375 DIA.
(9,53∅)

.250
(6,35)

.120
(3,05)
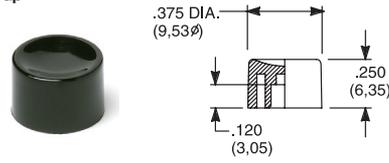
PART NO.	
752701000	WHITE
752702000	BLACK
752703000	RED
752704000	ORANGE
752705000	YELLOW
752706000	GREEN
752707000	BLUE
752709000	GRAY

Material: Nylon
Finish: Gloss

Cap

.310 DIA.
(7,87∅)

.138
(3,51)

.250
(6,35)
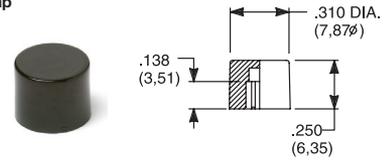
PART NO.	
801801000	WHITE
801802000	BLACK
801803000	RED
801804000	ORANGE
801805000	YELLOW
801806000	GREEN
801807000	BLUE
801809000	GRAY

Material: Nylon
Finish: Gloss

Cap, Snap-fitting plunger

.590 DIA.
(14,99∅)

.035
(0,89)

.395
(10,03)
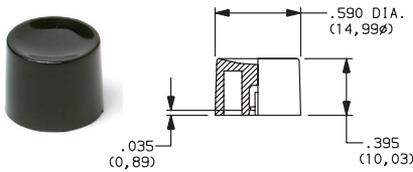
PART NO.	
452D01000	WHITE
452D02000	BLACK
452D03000	RED
452D04000	ORANGE
452D05000	YELLOW
452D06000	GREEN
452D07000	BLUE
452D09000	GRAY

Material: Nylon
Finish: Gloss

Cap, Snap-fitting plunger

.395 DIA.
(10,03∅)

.035
(0,89)

.325
(8,25)
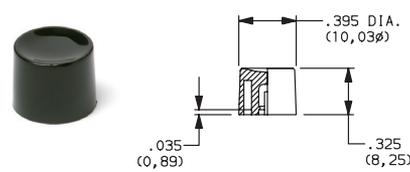
PART NO.	
894101000	WHITE
894102000	BLACK
894103000	RED
894104000	ORANGE
894105000	YELLOW
894106000	GREEN
894107000	BLUE
894109000	GRAY

Material: Nylon
Finish: Gloss

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

.450 SQ.
(11,43)

.195
(4,95)

.240
(6,10)
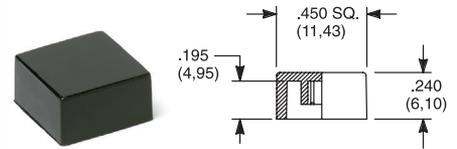
PART NO.		PART NO.	
484601000	WHITE	798201000	WHITE
484602000	BLACK	798202263	BLACK
484603000	RED	798203000	RED
484604000	ORANGE	798204000	ORANGE
484605000	YELLOW	798205000	YELLOW
484606000	GREEN	798206000	GREEN
484607000	BLUE	798207000	BLUE
484609000	GRAY	798209000	GRAY

Material: Nylon
Finish: Gloss

Material: Nylon
Finish: Matte

Frame

PART NO.	
615602263	BLACK

Material: Nylon
Finish: Matte

Frame

PART NO.	
613302263	BLACK

Material: Nylon
Finish: Matte

Cap, J85 & J95 options only

.074
(1,88)

.450 SQ.
(11,43)

.212
(5,38)

.175
(4,45)

.220
(5,59)
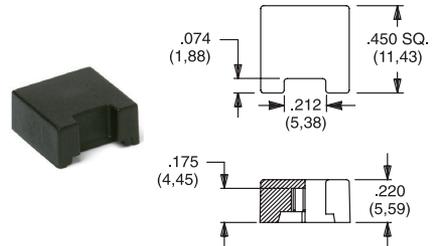
PART NO.
459701000
459702000
459703000
459704000
459705000
459706000
459707000
459709000

Material: Nylon
Finish: Matte
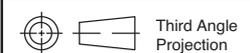
Fits Z3 Termination female connector

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.

Third Angle Projection

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

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.
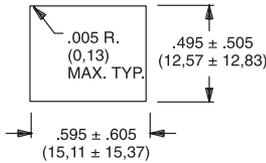
TYPICAL APPLICATION
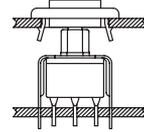
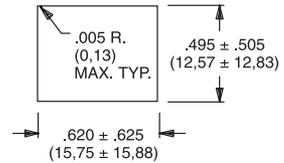.090" (2,29) PANEL THK.   .125" (3,18) PANEL THK.

PART NO.   **PART NO.**

432702263   **432802263**   BLACK

PANEL MOUNTING

For part numbers
4325xxxxx, 4326xxxxx

.005 R. (0,13) MAX. TYP.   .495 ± .505 (12,57 ± 12,83)

.595 ± .605 (15,11 ± 15,37)

For part numbers
4327xxxxx, 4328xxxxx

.005 R. (0,13) MAX. TYP.   .495 ± .505 (12,57 ± 12,83)

.620 ± .625 (15,75 ± 15,88)
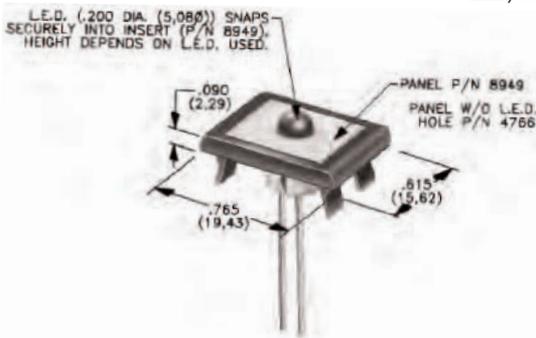
Panel Inserts

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

PANEL INSERT
WITH HOLE FOR LED

BLANK PANEL INSERT
WITHOUT HOLE FOR LED

PART NO.   **PART NO.**

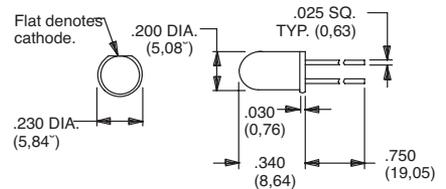**894902000**   **476602000**   BLACK

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 25ºC 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

Flat denotes cathode.

.200 DIA. (5,08˝)

.025 SQ. TYP. (0,63)

.230 DIA. (5,84˝)

.030 (0,76)

.340 (8,64)

.750 (19,05)

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

Process Information: Soldering to LED leads must be completed within 5 seconds at 500ºF (260ºC) 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.
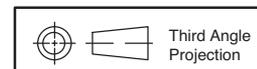
Third Angle Projection

Mouser Electronics

Authorized Distributor

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[C&K Switches](#):

8225J83ZBE22   8125SDWBE   8225SDWBE   U811SH9V6GE   8325SHCBE   8225J82ZBE22   8125J85W1BE223
8125J83CBE32   8125J84ZBE22   8125SHZ3BE   752705000   752704000   752709000   8121SHV3RE   8125J80CBE3
8121MYCGE   8121SD8AGE   8121SD9ZGE   8121SY9ALE   8221SYZGI   8421SYAV2GE   8121J81CGE32
8121SD9CGE   8121SDA2GE   8121SDA4GE   8121SDV2GE   8121SY4CGE   8121SYAGE   8121SYCGE   8121SYV4GE
8125J80ZBE2   8125J83CBE21   8125SY4CBE   8221SD9AV2GE   8221SD9V8GE   8221SDAV2GE   8221SY4ZGE
8225J81CBE22   8225LY4ZBE   8321MHZGE   8321SDCGE   8321SHCGE   8425SD9CBE   U821SD9ALE   U811SDZGE
8121SD9W3GE   8121SD9V4GE   8125J85ZBE225   8125J85WBE223   8121J85CGE223   8125SYCBI   8321SHAGE
U811SD9AV2GE   8221SD3V7GE   8125SY3ZBE   8125SD3A2BE   8221SD8AV2GE   U821SDAV2GE   8221J81ZGE62
8121LYCGE   U811J81ZGE62   8225SHW3BE   8121J85CGE225   8125J81ZBE11   8225J83ZBE72   8321SHWGE
8125SDV4BE   8125J85WBE226   8221SHW3GE   8121SY4AV2GE   8121J95V3RE66   8125SDV3BE   8125SY9ABE
8121SHV31GE   8225SHABE   8225SD9V4PE   8225SYZBE   8121J95V3RE33   8121MD9V3GE   8121SD3V8GE
8121J80ZGE6   8225J80ZBE3   8125MY9V3BE   459706000   459705000   459707000   459709000