

C&K 7000 Series Rocker and Lever Handle Switches

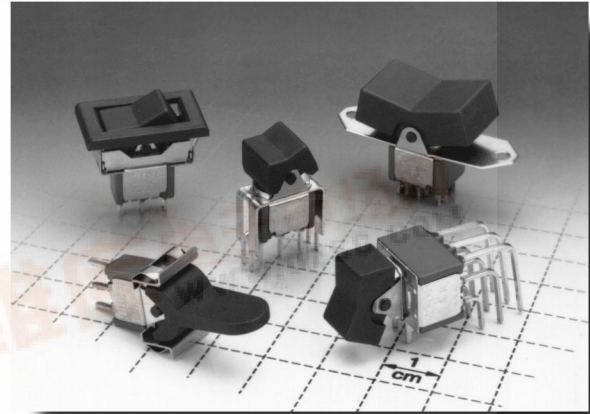


Features/Benefits

- Multi-pole and multi-position
- Wide variety of actuator and termination options
- Epoxy sealed terminals prevent contamination during soldering

Typical Applications

- Telecommunications
- Instrumentation
- Medical equipment



Build-A-Switch

Our easy Build-A-Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box. Switches with standard options are shown on pages F-4 and F-5. Available options are shown and described on pages F-6 thru F-22. 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.

Typical Example:

7	1	0	1	J	1	Z			Q	E	2	
---	---	---	---	---	---	---	--	--	---	---	---	--

Switch Function

- 7101 (STD.) SP On-None-On
- 7103 (STD.) SP On-Off-On
- 7201 (STD.) DP On-None-On
- 7301 (STD.) 3P On-None-On
- 7401 (STD.) 4P On-None-On
- 7105 SP Mom.-Off-Mom.
- 7107 SP On-Off-Mom.
- 7108 SP On-None-Mom.
- 7109 SP None-On-Mom.
- 7203 DP On-Off-On
- 7205 DP Mom.-Off-Mom.
- 7207 DP On-Off-Mom.
- 7208 DP On-None-Mom.
- 7209 DP None-On-Mom.
- 7211 DP On-On-On
- 7213 DP On-On-Mom.
- 7215 DP Mom.-On-Mom.
- 7303 3P On-Off-On
- 7305 3P Mom.-Off-Mom.
- 7307 3P On-Off-Mom.
- 7308 3P On-None-Mom.
- 7309 3P None-On-Mom.
- 7403 4P On-Off-On
- 7405 4P Mom.-Off-Mom.
- 7407 4P On-Off-Mom.
- 7408 4P On-None-Mom.
- 7409 4P None-On-Mom.
- 7411 4P On-On-On
- 7413 4P On-On-Mom.
- 7415 4P Mom.-On-Mom.

Actuator

- J1 (STD.) Rocker
- J2 Lever
- J3 Rocker
- J8 Rocker
- J10 Rocker
- J11 Rocker with frame
- J15 Rocker with frame, snap-in
- J16 Rocker, snap-in
- J19 Rocker with frame
- J21 Lever with frame
- J25 Lever, snap-in
- J26 Lever with frame, snap-in
- J37 Rocker with frame
- J50 Rocker
- J51 Rocker with frame
- J52 Rocker with frame & LED, snap-in
- J53 Rocker, snap-in
- J60 Lever
- J61 Lever with frame, snap-in
- J62 Lever with frame & LED, snap-in
- J63 Lever, snap-in
- J76 Rocker with frame, snap-in
- J90 Lever
- J91 Lever with frame, snap-in
- J92 Lever with frame & LED, snap-in
- J93 Lever, snap-in

Terminations

- A (STD.) Right angle, PC thru-hole
- AV2 (STD.) Vertical right angle, PC thru-hole
- C (STD.) PC Thru-hole
- Z (STD.) Solder lug
- A3 Right angle, snap-in, PC thru-hole
- AV3 Vertical right angle, snap-in, PC thru-hole
- AW Right angle, extended, PC thru-hole
- AW1 Right angle, extended, PC thru-hole
- AW3 Right angle, extended, PC thru-hole
- AW4 Right angle, extended, PC thru-hole
- V2 .555" high, V-bracket
- V3 .460" high, V-bracket
- V4 .630" high, V-bracket
- V5 Vertical right angle, PC thru-hole
- V6 .460" high, V-bracket
- V7 .630" high, V-bracket
- V8 .953" high, V-bracket
- V9 1.150" high, V-bracket
- V21 .555" high, V-bracket, snap-in
- V31 .460" high, V-bracket, snap-in
- V41 .630" high, V-bracket, snap-in
- V51 Vertical right angle, snap-in
- V54 Vertical right angle, extended
- V55 Vertical right angle, extended
- V61 .460" high, V-bracket, snap-in
- V71 .630" high, V-bracket, snap-in
- V81 .953" high, V-bracket, snap-in
- V91 1.150" high, V-bracket, snap-in

Contact Material

- B (STD.) Gold
- Q (STD.) Silver
- K Gold
- M Silver
- G Gold over silver
- L Gold over silver

Seal

- E (STD.) Epoxy
- I Epoxy potted base

Actuator Color

- 2 (STD.) Black
- 1 White
- 3 Red

Frame Color

- 2 (STD.) Black
- NONE No frame color required
- 1 White
- 3 Red

Metal Frame Color

- (J11, J19, J21, J37 Actuators)
- 2 (STD.) Black
- 1 White
- C Bright chrome
- S Satin chrome

Note: UL/CSA models available, see page F-6.



Rocker



C&K 7000 Series

Rocker and Lever Handle Switches

Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: 5 AMPS @ 120 V AC or 28 V DC; 2 AMPS @ 250 V AC. See page F-22 for additional ratings.

ELECTRICAL LIFE: 7X01 and UX1 models: 100,000 make-and-break cycles at full load. All other models: 40,000 cycles.

CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10⁹ ohms min.

DIELECTRIC STRENGTH: 1000 V RMS min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

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

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

Materials

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

ACTUATOR: Nylon, black.

FRAME (FRONT MOUNT): Nylon, black.

FRAME (REAR MOUNT): Spring steel, black.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, tin plated.

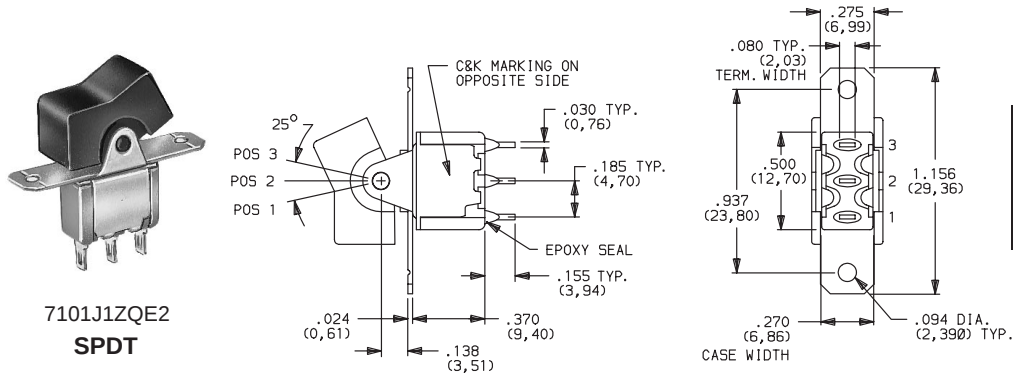
END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page F-22 for additional contact materials.

CENTER CONTACTS & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page F-22 for additional contact materials.

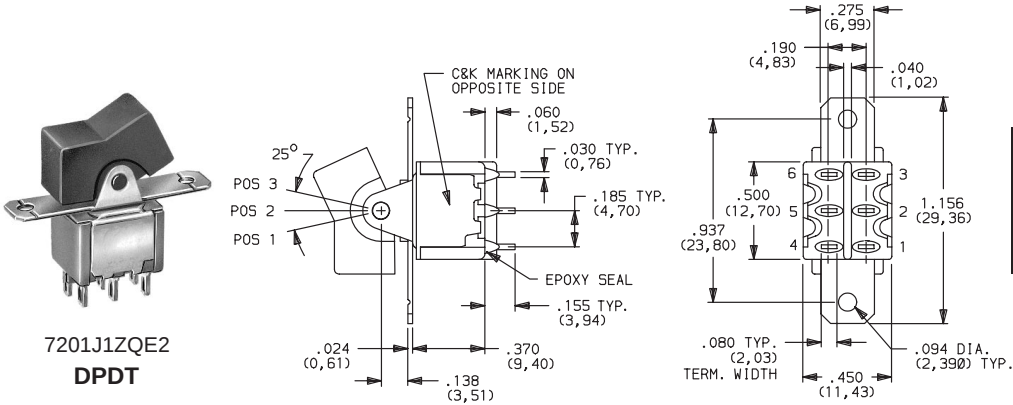
TERMINAL SEAL: Epoxy.

HARDWARE: Mounting nuts & screws: Brass. Lockwasher: Stainless steel. Standoff: Nylon standard, aluminum available, consult Customer Service Center.

SWITCHES WITH STANDARD OPTIONS



Rocker

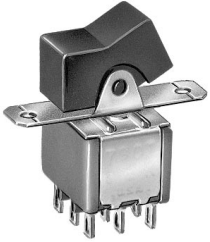
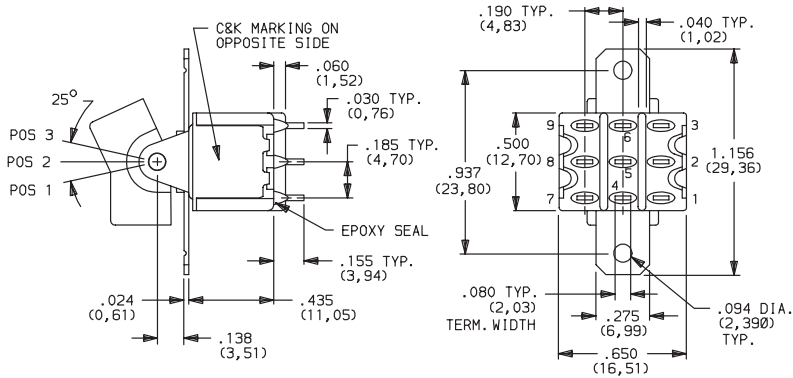


C&K 7000 Series Rocker and Lever Handle Switches

SWITCHES WITH STANDARD OPTIONS

	POS. 1	POS. 2	POS. 3
PART NUMBER			
7301J1ZQE2	ON	NONE	ON

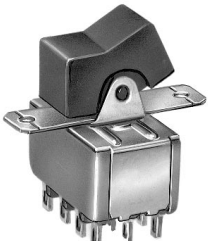
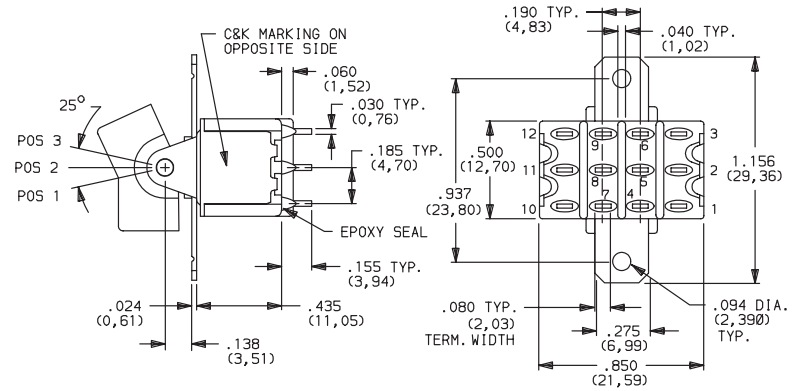
NOTE: For PC termination, replace 'Z' with 'C'.
For panel mounting information, see page F-7.



7301J1ZQE2
3PDT

	POS. 1	POS. 2	POS. 3
PART NUMBER			
7401J1ZQE2	ON	NONE	ON

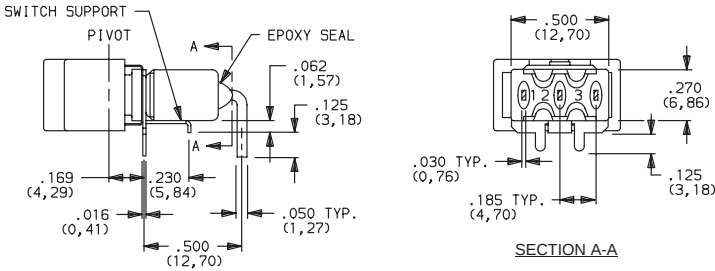
NOTE: For PC termination, replace 'Z' with 'C'.
For panel mounting information, see page F-7.



7401J1ZQE2
4PDT

	POS. 1	POS. 2	POS. 3
PART NUMBER			
7101J1ABE2	ON	NONE	ON
7101J1AQE2	ON	NONE	ON
7103J1ABE2	ON	OFF	ON

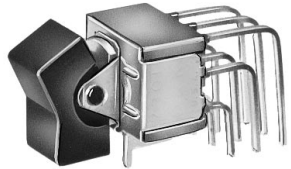
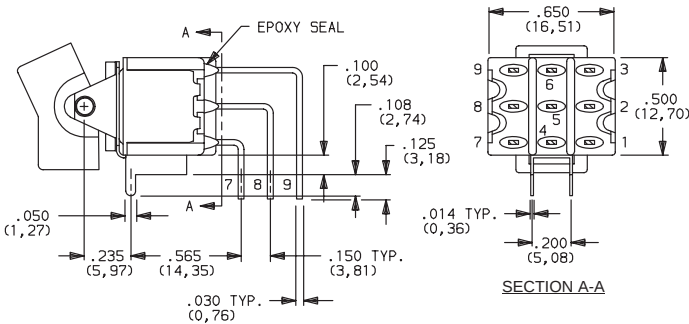
NOTE: For PC mounting information, see page F-15.



7101J1ABE2
Horizontal Actuation
SPDT

	POS. 1	POS. 2	POS. 3
PART NUMBER			
7301J1AV2QE2	ON	NONE	ON

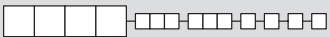
NOTE: For PC mounting information, see page F-17.

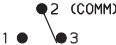
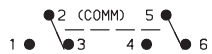
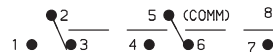


7301J1AV2QE2
Vertical Actuation
3PDT

C&K 7000 Series

Rocker and Lever Handle Switches

SWITCH FUNCTION 

NO. POLES	MODEL NO.	UL/CSA** MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
									
SP	7101 (STD.)	U11	ON	NONE	ON	2-3	OPEN	2-1	
	7103 (STD.)	U13	ON	OFF	ON				
	7105	U15	MOM.	OFF	MOM.				
	7107	U17	ON	OFF	MOM.				
	7108	U18	ON	NONE	MOM.				
	7109	U19	NONE	ON	MOM.	N/A	2-3	2-1	SPDT
DP	7201 (STD.)	U21	ON	NONE	ON	2-3,5-6	OPEN	2-1,5-4	
	7203	U23	ON	OFF	ON				
	7205	U25	MOM.	OFF	MOM.				
	7207	U27	ON	OFF	MOM.				
	7208	U28	ON	NONE	MOM.				
	7209	U29	NONE	ON	MOM.	N/A	2-3,5-6	2-1,5-4	
	7211*	U211*	ON	ON	ON	2-3,5-6	2-3,5-4	2-1,5-4	
	7213*	U213*	ON	ON	MOM.				
7215*	U215*	MOM.	ON	MOM.				DPDT	
3P	7301 (STD.)	U31	ON	NONE	ON	2-3,5-6,8-9	OPEN	2-1,5-4,8-7	
	7303	U33	ON	OFF	ON				
	7305	U35	MOM.	OFF	MOM.				
	7307	U37	ON	OFF	MOM.				
	7308	U38	ON	NONE	MOM.				
	7309	U39	NONE	ON	MOM.	N/A	2-3,5-6,8-9	2-1,5-4,8-7	
4P	7401 (STD.)	U41	ON	NONE	ON	2-3,5-6,8-9,11-12	OPEN	2-1,5-4,8-7,11-10	
	7403	U43	ON	OFF	ON				
	7405	U45	MOM.	OFF	MOM.				
	7407	U47	ON	OFF	MOM.				
	7408	U48	ON	NONE	MOM.				
	7409	U49	NONE	ON	MOM.	N/A	2-3,5-6,8-9,11-12	2-1,5-4,8-7,11-10	
	7411*	U411*	ON	ON	ON	2-3,5-6,8-9,11-12	2-3,5-4,8-9,11-10	2-1,5-4,8-7,11-10	
	7413*	U413*	ON	ON	MOM.				
7415*	U415*	MOM.	ON	MOM.				4PDT	

MOM. = Momentary

* Wiring for 3-way switch, see page L-29.

**U11-U415 model nos.   with all options when ordered with G, L, M or Q contact material.



Rocker

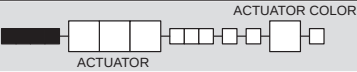


ITT Industries

Cannon

C&K 7000 Series Rocker and Lever Handle Switches

ACTUATOR—PANEL REAR MOUNT



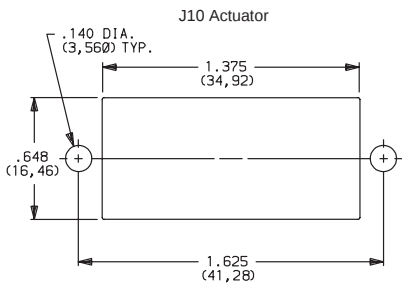
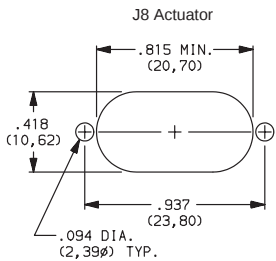
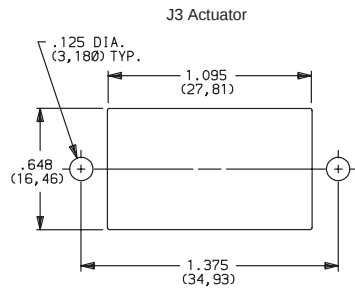
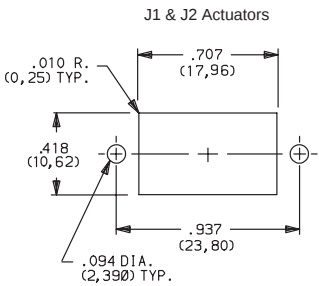
OPTION CODE	ACTUATOR COLOR
2	(STD.) BLACK
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

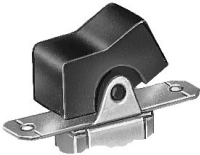
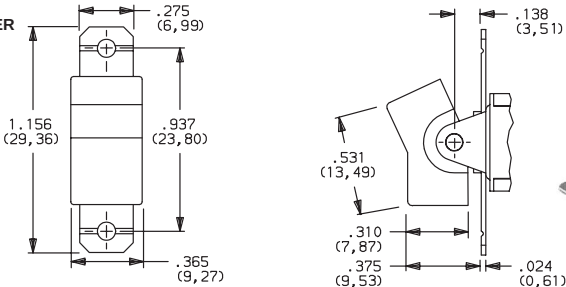
NOTE: Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware is available separately, see section L.

J1, J2, J3, J8 & J10 Actuators available with C, W-W5, Z or Z3 terminations.

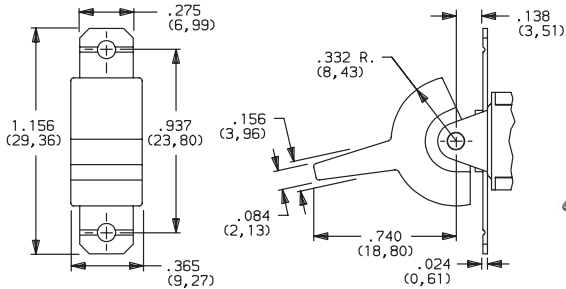
PANEL MOUNTING



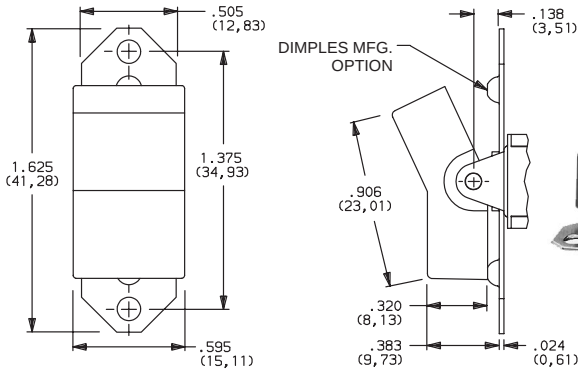
J1 (STD.) ROCKER



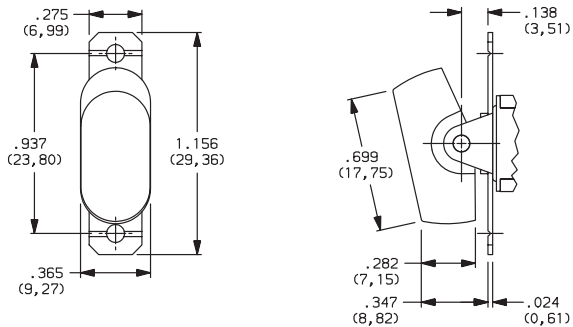
J2 LEVER



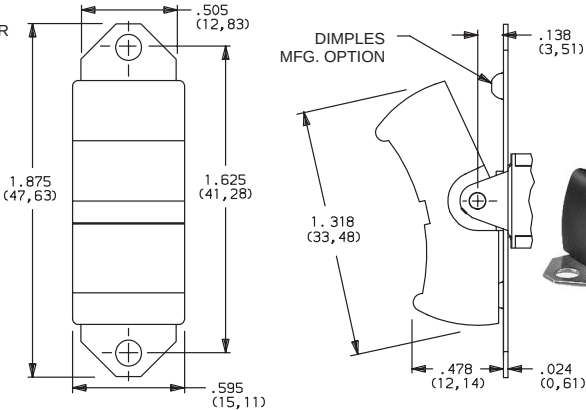
J3 ROCKER



J8 ROCKER



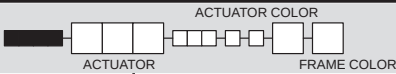
J10 ROCKER



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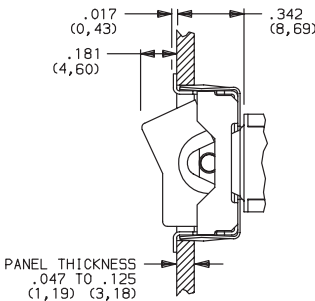
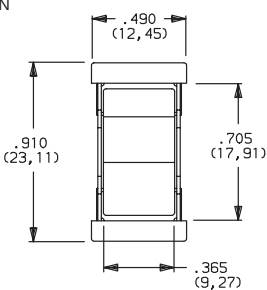
ACTUATOR—SNAP-IN FRONT MOUNT



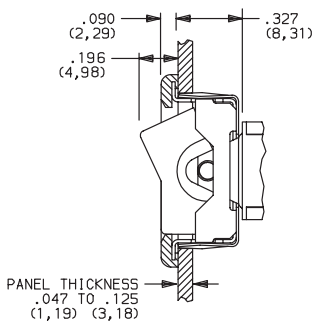
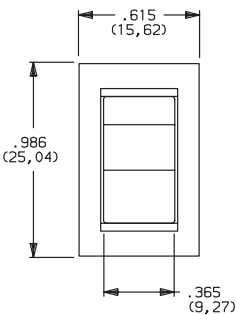
J15 ROCKER WITH FRAME, SNAP-IN



No frame color choice required.



J16 ROCKER, SNAP-IN



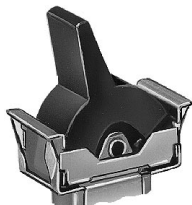
OPTION CODE	ACTUATOR COLOR
2	(STD.) BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	(STD.) BLACK
NONE	No Frame Color (J15 or J25 options)
1	WHITE
3	RED

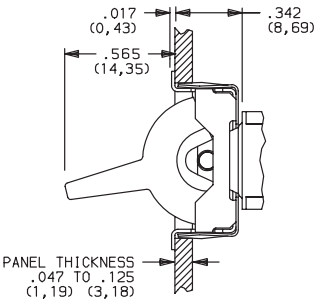
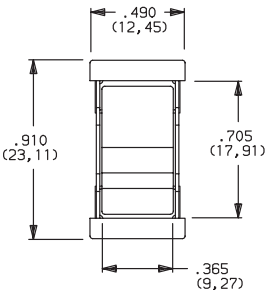
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Frames are available separately, see section L. J15, J16, J25, J26 & J76 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

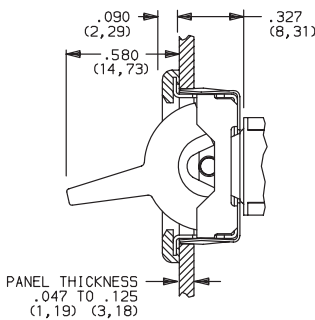
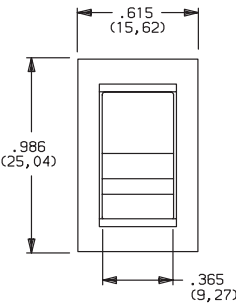
J25 LEVER, SNAP-IN



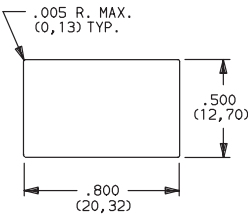
No frame color choice required.



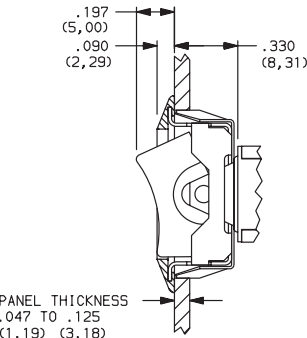
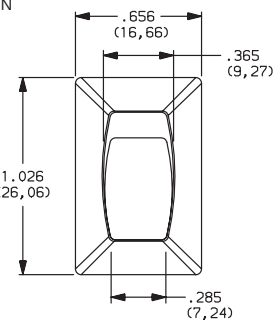
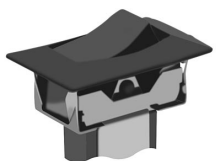
J26 LEVER WITH FRAME, SNAP-IN



PANEL MOUNTING



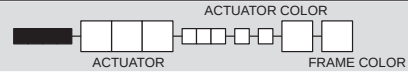
J76 ROCKER WITH FRAME, SNAP-IN



Rocker

C&K 7000 Series Rocker and Lever Handle Switches

ACTUATOR—SNAP-IN FRONT MOUNT



OPTION CODE	ACTUATOR COLOR
2	(STD.) BLACK
1	WHITE
3	RED

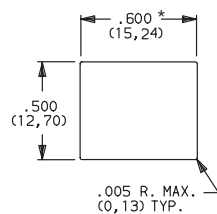
OPTION CODE	FRAME COLOR
2	(STD.) BLACK
NONE	No Frame Color (J50 or J53 options)
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

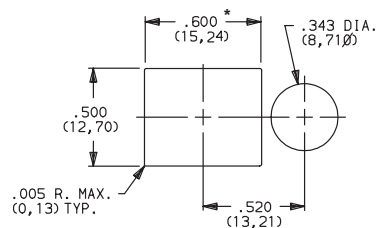
NOTE: Frames are available separately, see section L. J50, J51, J52 & J53 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

PANEL MOUNTING

J50, J51 & J53 Actuators

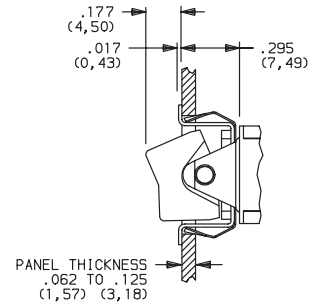
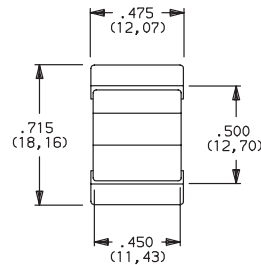


J52 Actuator



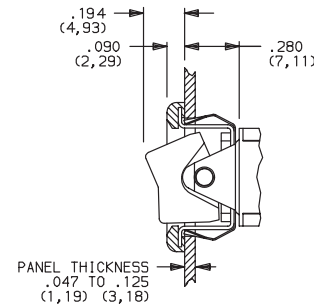
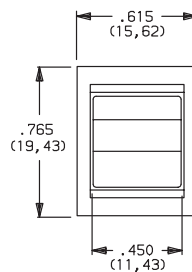
* For J50: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.
For J51, J52: Increase this dimension to .620/.625 (15,75/15,88) for .060/.125 (1,52/3,18) thk. panels.

J50 ROCKER, SNAP-IN

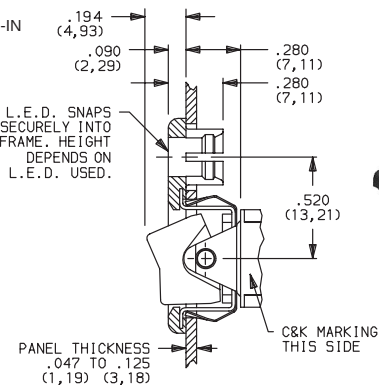
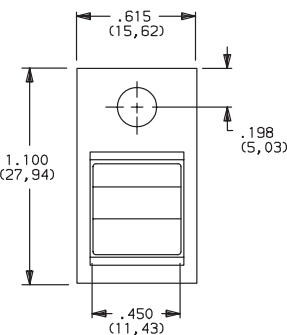


No frame color choice required.

J51 ROCKER WITH FRAME, SNAP-IN

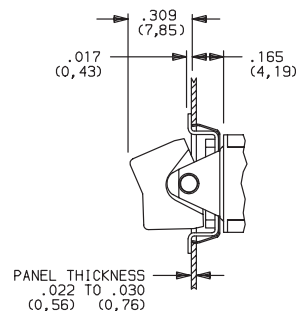
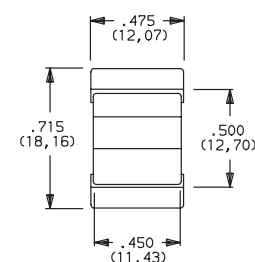


J52 ROCKER WITH FRAME & LED, SNAP-IN



LED not included.
For LED information, see page L-30.

J53 ROCKER, SNAP-IN

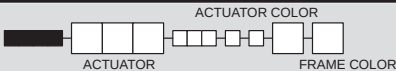


No frame color choice required.

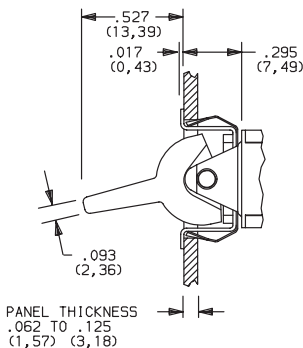
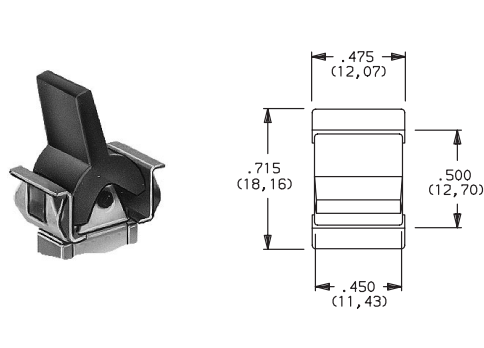
C&K 7000 Series

Rocker and Lever Handle Switches

ACTUATOR—SNAP-IN FRONT MOUNT



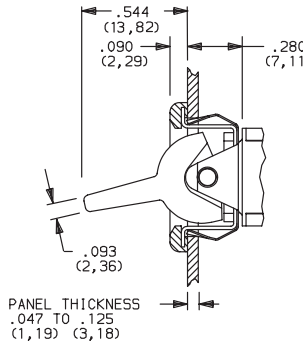
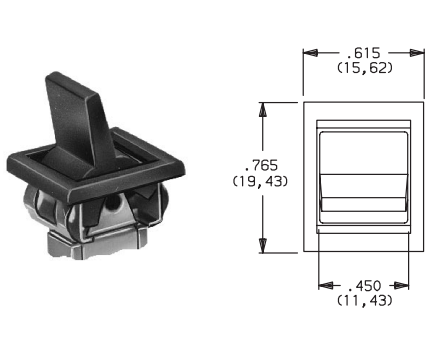
J60 LEVER, SNAP-IN



OPTION CODE	ACTUATOR COLORS
2	(STD.) BLACK
1	WHITE
3	RED

No frame color choice required.

J61 LEVER WITH FRAME, SNAP-IN

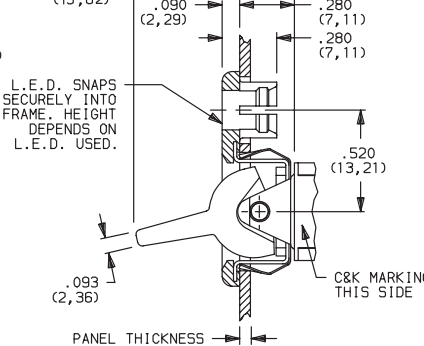
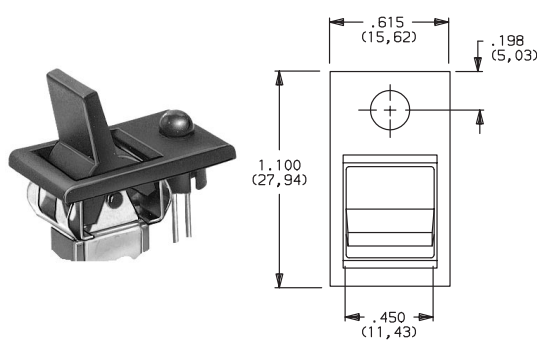


OPTION CODE	FRAME COLORS
2	(STD.) BLACK
NONE	No Frame Color (J60 or J63 options)
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

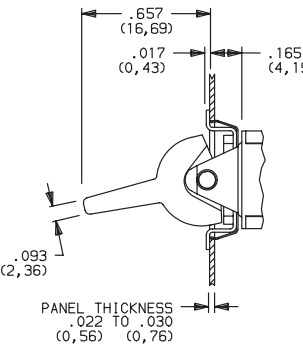
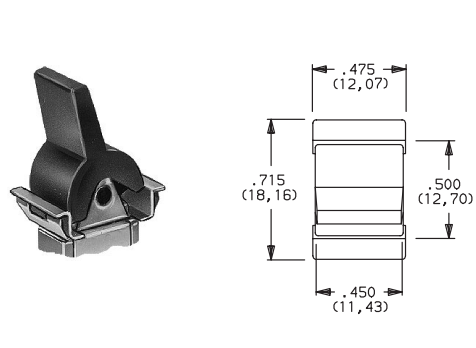
NOTE: Frames are available separately, see section L. J60, J61, J62 & J63 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z & Z3 terminations.

J62 LEVER WITH FRAME & LED, SNAP-IN



LED not included.
For LED information, see page L-30.

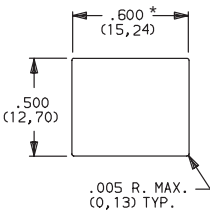
J63 LEVER, SNAP-IN



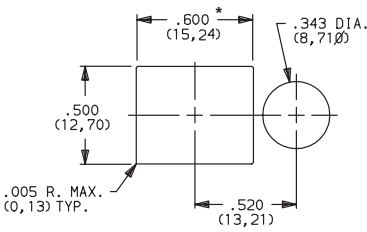
No frame color choice required.

PANEL MOUNTING

J60, J61 & J63 Actuators



J62 Actuator



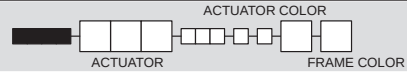
* For J60: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.
For J61, J62: Increase this dimension to .620/.625 (15,75/15,88) for .060/.125 (1,52/3,18) thk. panels.



Rocker

C&K 7000 Series Rocker and Lever Handle Switches

ACTUATOR—SNAP-IN FRONT MOUNT



OPTION CODE	ACTUATOR COLOR
2	(STD.) BLACK
1	WHITE
3	RED

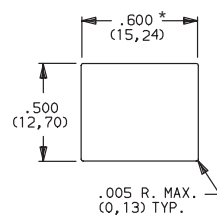
OPTION CODE	FRAME COLOR
2	(STD.) BLACK
NONE	No Frame Color (J90 or J93 options)
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

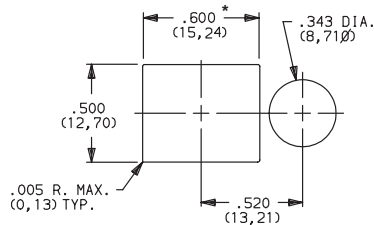
NOTE: Frames are available separately, see section L. J90, J91, J92 & J93 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z & Z3 terminations.

PANEL MOUNTING

J90, J91 & J93 Actuators

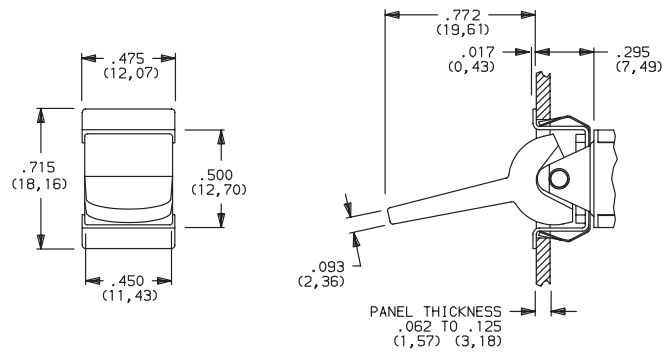


J92 Actuator



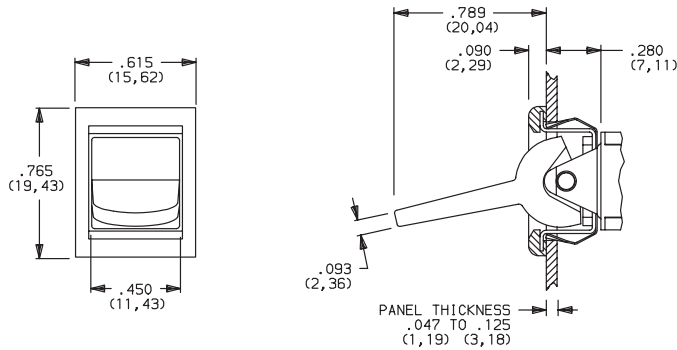
* For J90: Increase this dimension to .620/.625 (15.75/15.88) for .091/.125 (2.31/3.18) thk. panels. For J91, J92: Increase this dimension to .620/.625 (15.75/15.88) for .060/.125 (1.52/3.18) thk. panels.

J90 LEVER, SNAP-IN

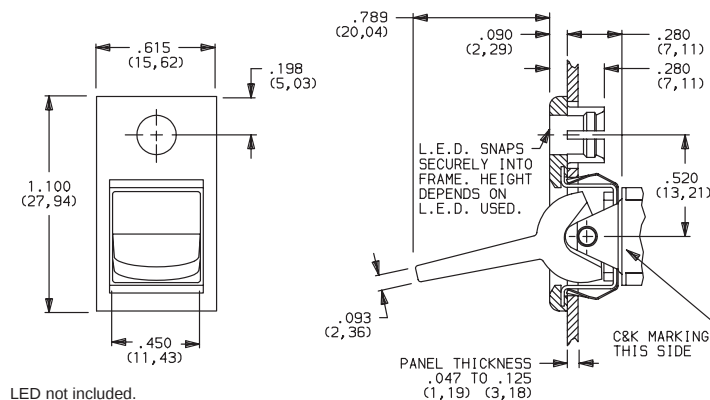


No frame color choice required.

J91 LEVER WITH FRAME, SNAP-IN

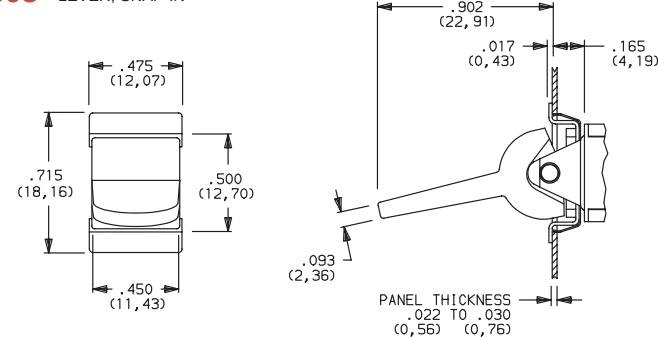


J92 LEVER WITH FRAME & LED, SNAP-IN



LED not included.
For LED information, see page L-30.

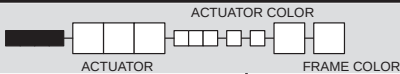
J93 LEVER, SNAP-IN



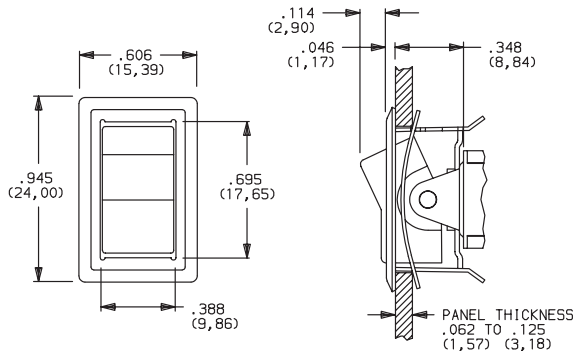
No frame color choice required.

C&K 7000 Series Rocker and Lever Handle Switches

ACTUATOR—REAR MOUNT

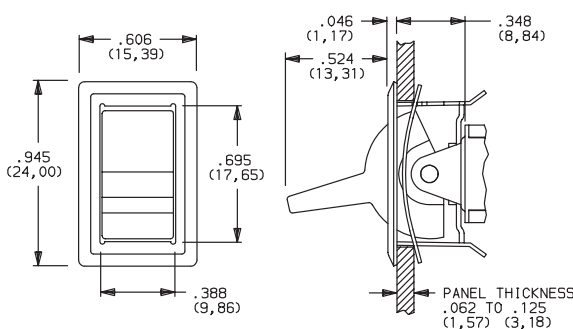


J11 ROCKER WITH FRAME



OPTION CODE	ACTUATOR COLOR
2	(STD.) BLACK
1	WHITE
3	RED

J21 LEVER WITH FRAME

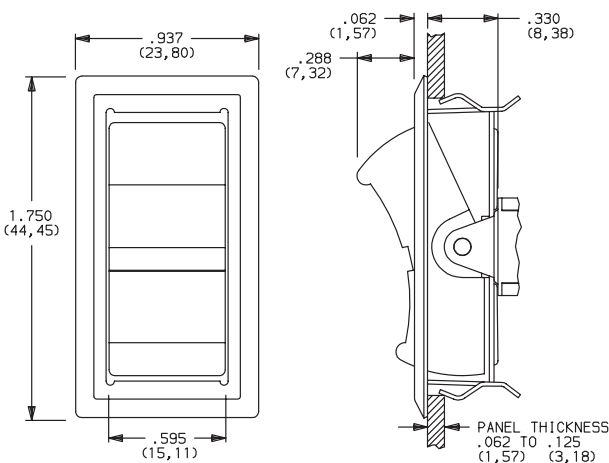
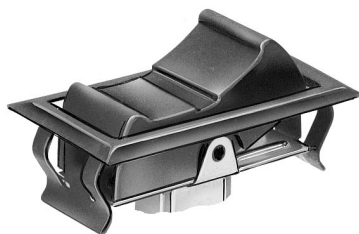


OPTION CODE	FRAME COLOR
2	(STD.) BLACK
1	WHITE
C	BRIGHT CHROME
S	SATIN CHROME

Actuator finish: Matte. Frame finish: Gloss.
Other colors, custom actuator markings and legends available, consult Customer Service Center.

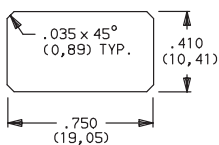
NOTE: Frames are available separately, see section L. J11, J19, J21 & J37 Actuators available with C, W-W5, Z & Z3 terminations.

J19 ROCKER WITH FRAME

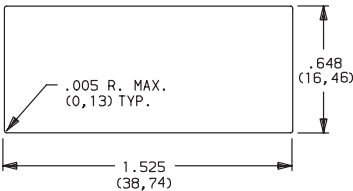


PANEL MOUNTING

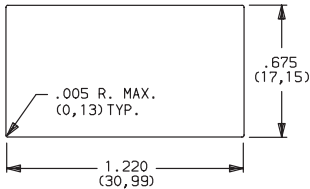
J11 & J21 Actuators



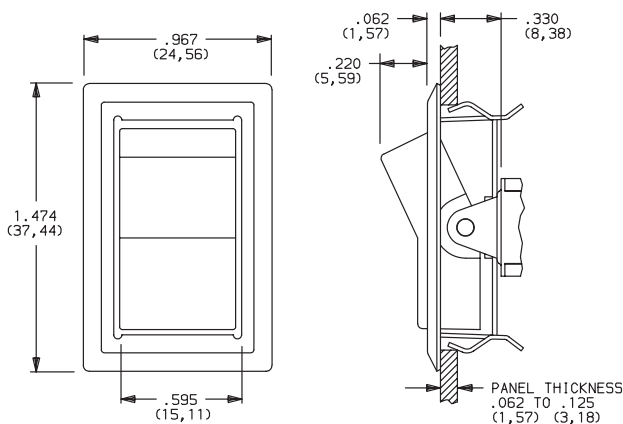
J19 Actuator



J37 Actuator



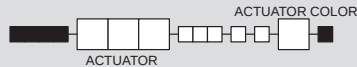
J37 ROCKER WITH FRAME



Rocker

C&K 7000 Series Rocker and Lever Handle Switches

ACTUATOR—PC MOUNT



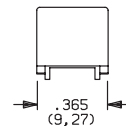
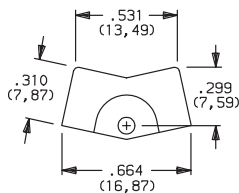
OPTION CODE	ACTUATOR COLOR
2	(STD.) BLACK
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

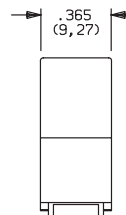
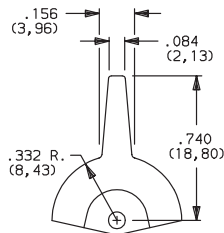
NOTE: Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

Actuators are available separately, see section L. J1, J2 & J8 actuators available with A, A3, AV2, AV3, AW-AW4 & V2-V91 terminations. J3 actuators available with AV2, AV3 & V2-V91 terminations. J50 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW-AW4 (DP, 3P models only) & V2-V91 terminations.

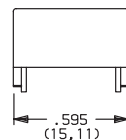
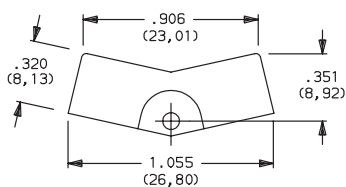
J1 (STD.) ROCKER



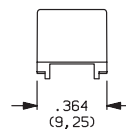
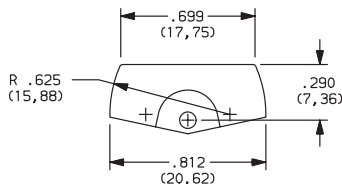
J2 LEVER



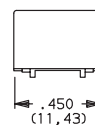
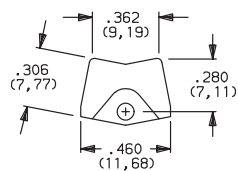
J3 ROCKER



J8 ROCKER



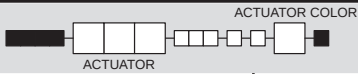
J50 ROCKER



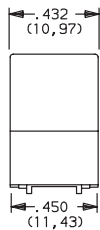
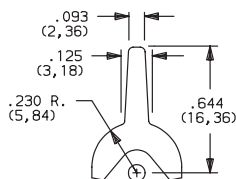
Rocker

C&K 7000 Series Rocker and Lever Handle Switches

ACTUATOR—PC MOUNT



J60 LEVER



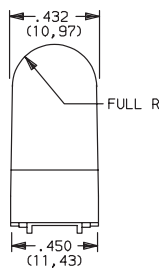
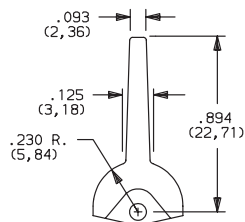
OPTION CODE	ACTUATOR COLOR
2	(STD.) BLACK
1	WHITE
3	RED

Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

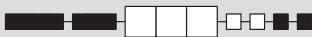
NOTE: Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

Actuators are available separately, see section L. J60 & J90 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW-AW4 (DP, 3P models only) & V2-V91 terminations.

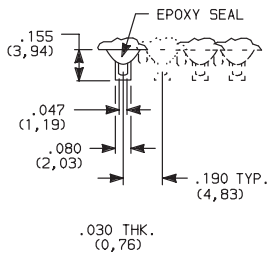
J90 LEVER



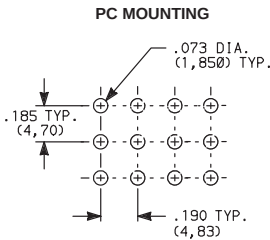
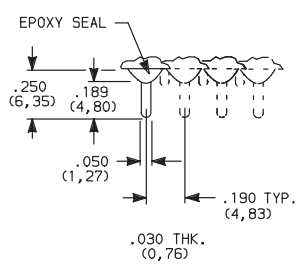
TERMINATIONS



Z (STD.) SOLDER LUG



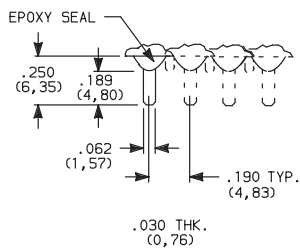
C (STD.) PC THRU-HOLE



SPDT thru 4PDT

Not available with K, L or M contact materials. Available actuators, see pages F-7 thru F-14.

Z3 QUICK CONNECT

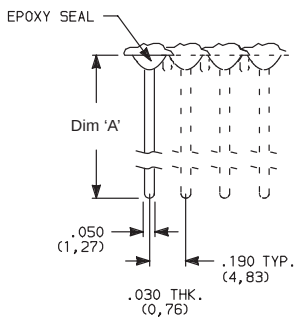


Not available with K, L or M contact materials. Available actuators, see pages F-7 thru F-14. Mating quick connector available; order part number 530100000.

SPDT thru 4PDT

NOTE: Available actuators, see pages F-7 thru F-14.

W, W1, W3, W4, W5 WIRE WRAP



OPTION CODE	DIM 'A'
W	.750 (19,05)
W1	.964 (24,49)
W3	.425 (10,80)
W4	1.062 (26,97)
W5	1.305 (33,15)

SPDT thru 4PDT

NOTE: Available actuators, see pages F-7 thru F-14.

SPDT thru 4PDT



Rocker

TERMINATIONS

Diagram of a three-pin connector. The connector has three pins. The distance between the center of the first two pins is labeled as .048 TYP. (1, 22). The distance between the center of the second and third pins is labeled as .200 (5, 08).

SWITCH SUPPORT

PIVOT

EPOXY SEAL

.062
(1,57)

.125
(3,18)

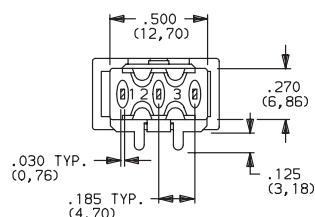
.230
(5,84)

.169
(4,29)

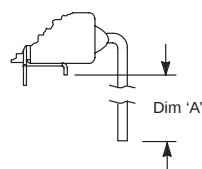
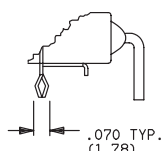
.016
(0,41)

.500
(12,70)

.050 TYP.
(1,27)

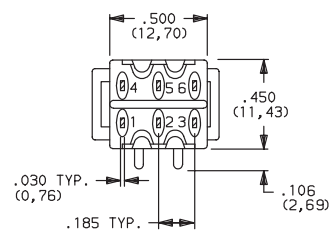


.048 TYP.
(1.22)

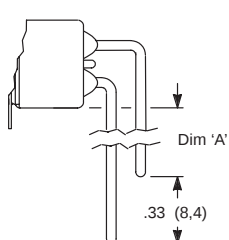
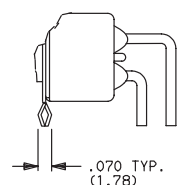


OPTION CODE	DIM 'A'
AW	.44 (11,2)
AW1	.66 (16,8)
AW3	.14 (3,6)
AW4	.77 (19,6)
AW5	1.02 (25,9)

NOTE: PC pattern must clear switch support leg.



.048 TYP.
(1, 22)



OPTION CODE	DIM 'A'
AW	.19 (4,8)
AW1	.40 (10,2)
AW4	.50 (12,7)



Cannon

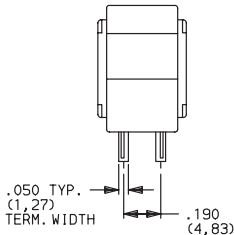


Rocker

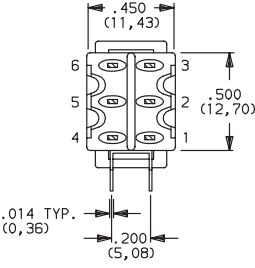
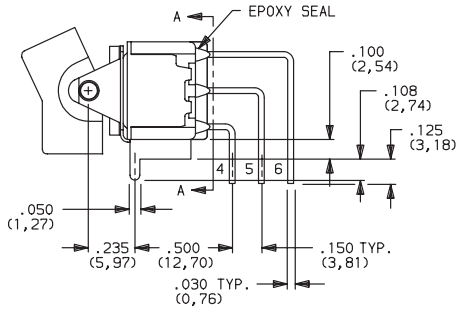
C&K 7000 Series Rocker and Lever Handle Switches

TERMINATIONS

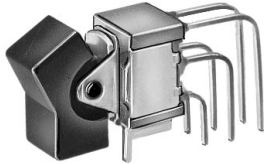
AV2 (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



Actuator Shown In Pos. 1

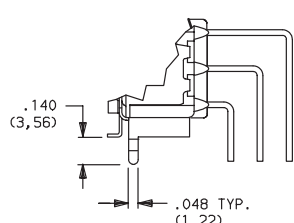
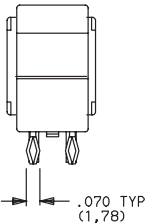


SECTION A-A

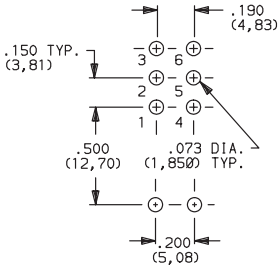


7201J1AV2BE2
Vertical Actuation
DPDT

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

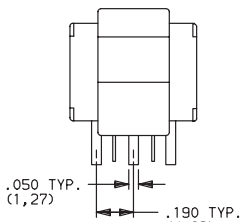


PC MOUNTING

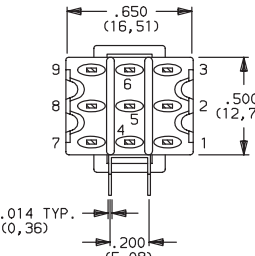
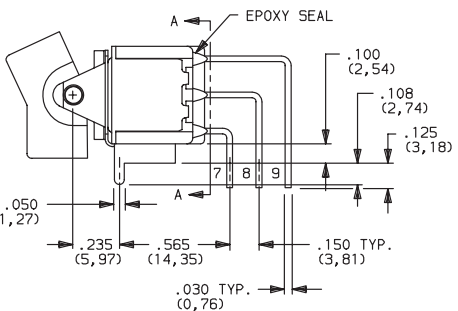


Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

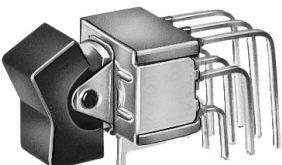
AV2 (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



Actuator Shown In Pos. 1

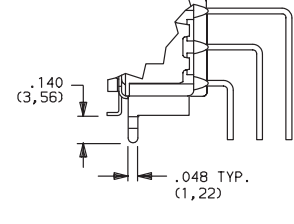
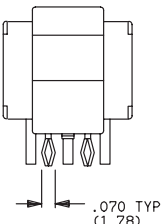


SECTION A-A

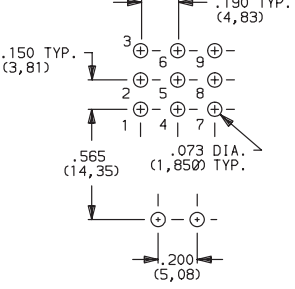


7301J1AV2BE2
Vertical Actuation
3PDT

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



PC MOUNTING



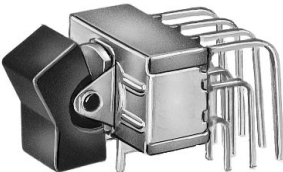
Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

C&K 7000 Series

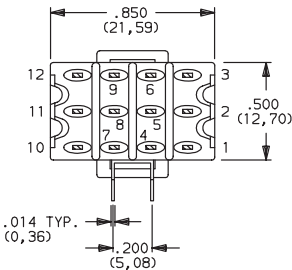
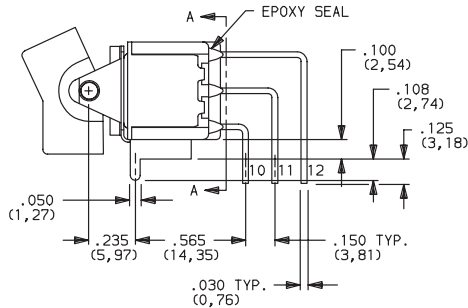
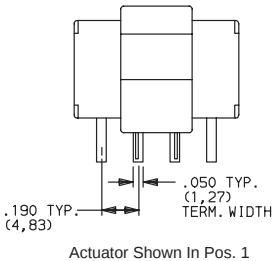
Rocker and Lever Handle Switches

TERMINATIONS

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

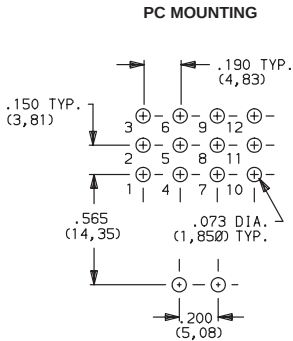
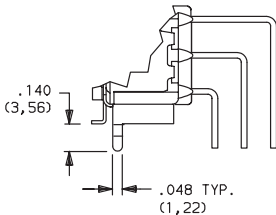
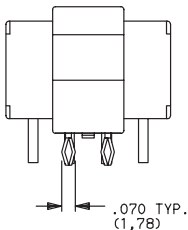


7401J1AV2BE2
Vertical Actuation
4PDT



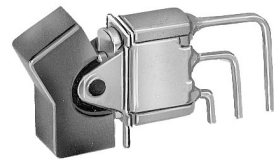
SECTION A-A

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

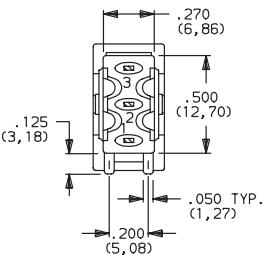
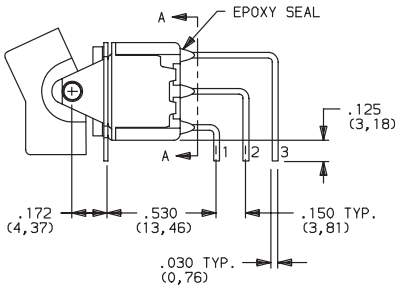
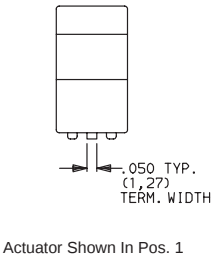


Not available with I seal option. Available actuators, see pages F-13 and F-14. Terminal bend radii and lead-in manufacturing option.

V5 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH

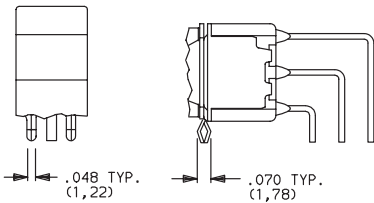


7101J1V5BE2
Vertical Actuation
SPDT

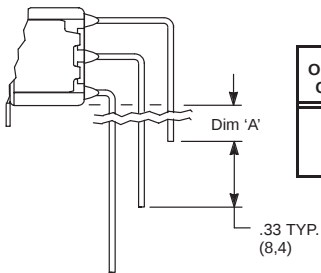


SECTION A-A

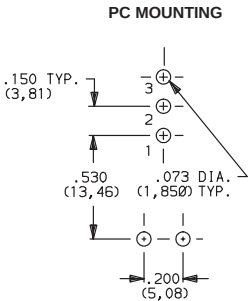
V51 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



V54, V55 VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH



OPTION CODE	DIM 'A'
V54	.24 (6,1)
V55	.48 (12,2)

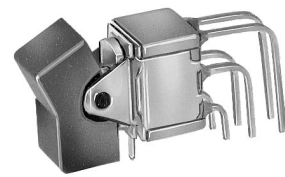
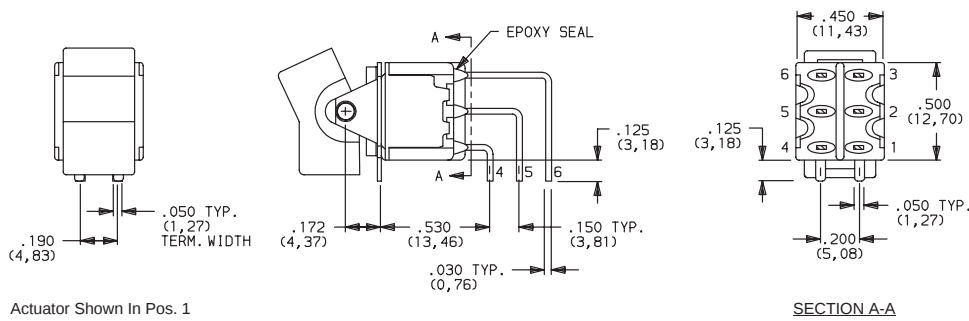


Not available with I seal option. Available actuators, see pages F-13 and F-14. Terminal bend radii and lead-in manufacturing option.

C&K 7000 Series Rocker and Lever Handle Switches

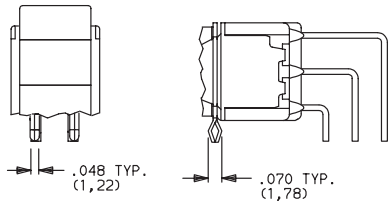
TERMINATIONS

V5 VERTICAL RIGHT ANGLE, PC THRU-HOLE,
.150" PITCH

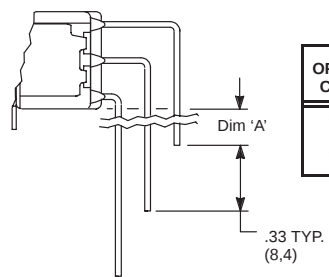


7201J1V5BE2
Vertical Actuation
DPDT

V51 VERTICAL RIGHT ANGLE, SNAP-IN,
PC THRU-HOLE, .150" PITCH

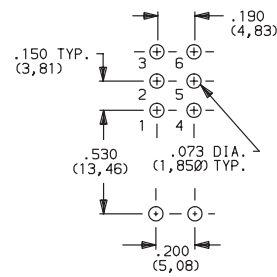


V54, V55 VERTICAL RIGHT ANGLE, EXTENDED,
PC THRU-HOLE, .150" PITCH



OPTION CODE	DIM 'A'
V54	.24 (6,1)
V55	.48 (12,2)

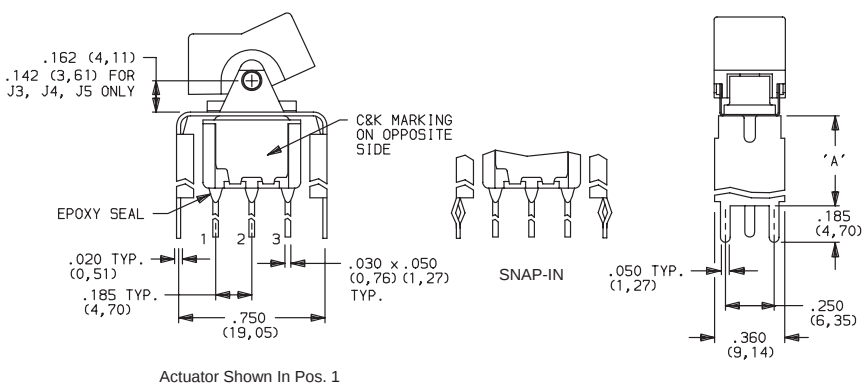
PC MOUNTING



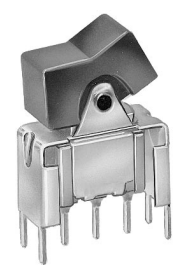
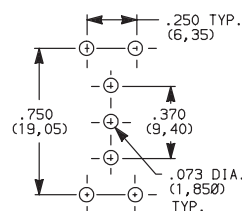
Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

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

V21, V61, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



PC MOUNTING



7101J1_BE2
SPDT

OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V6, V61	.460 (11, 68)
V7, V71	.630 (16, 00)
V8, V81	.953 (24, 21)

Not available with I seal option.
Available actuators, see pages F-13 and F-14.

C&K 7000 Series

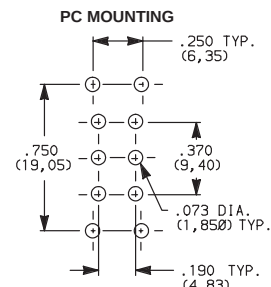
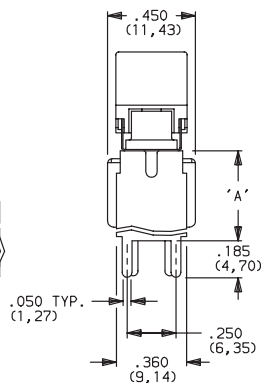
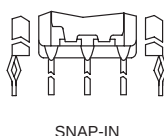
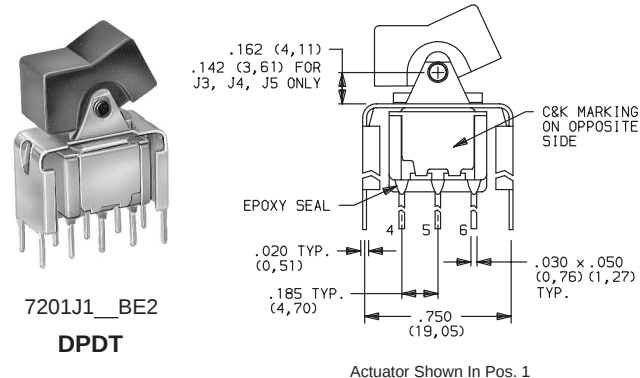
Rocker and Lever Handle Switches

TERMINATIONS



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

V21, V61, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN

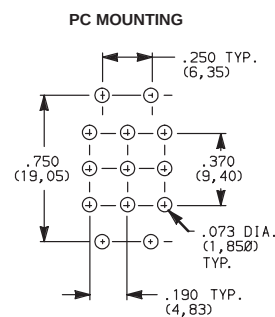
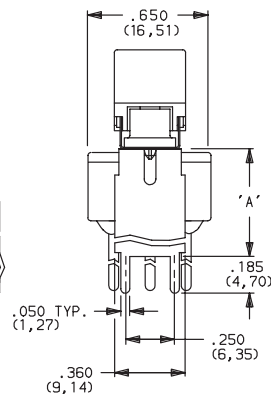
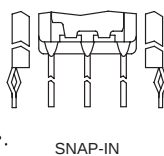
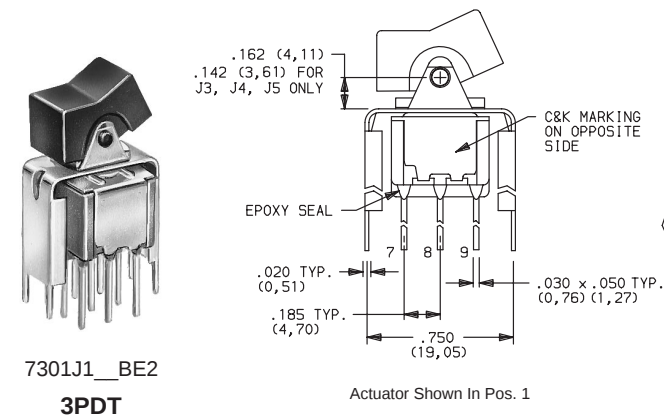


OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V6, V61	.460 (11,68)
V7, V71	.630 (16,00)
V8, V81	.953 (24,21)

Not available with I seal option.
Available actuators, see pages F-13 and F-14.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET

V21, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN

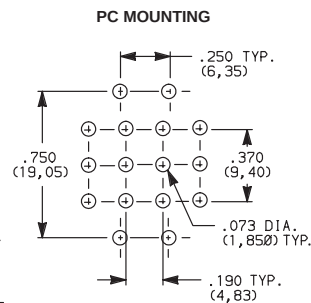
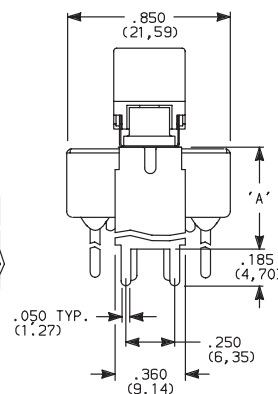
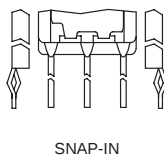
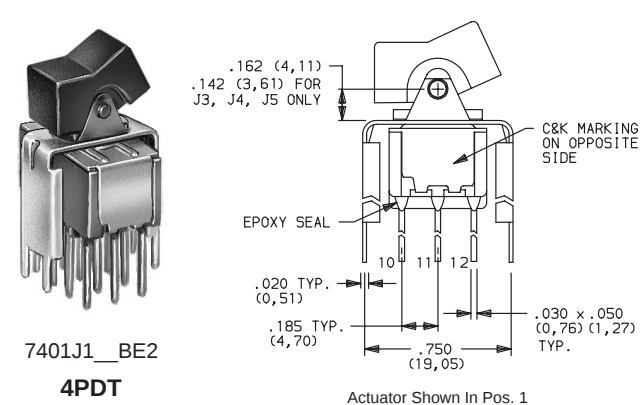


OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V7, V71	.630 (16,00)
V8, V81	.953 (24,21)

Not available with I seal option.
Available actuators, see pages F-13 and F-14.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET

V21, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN



OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V7, V71	.630 (16,00)
V8, V81	.953 (24,21)

Not available with I seal option.
Available actuators, see pages F-13 and F-14.



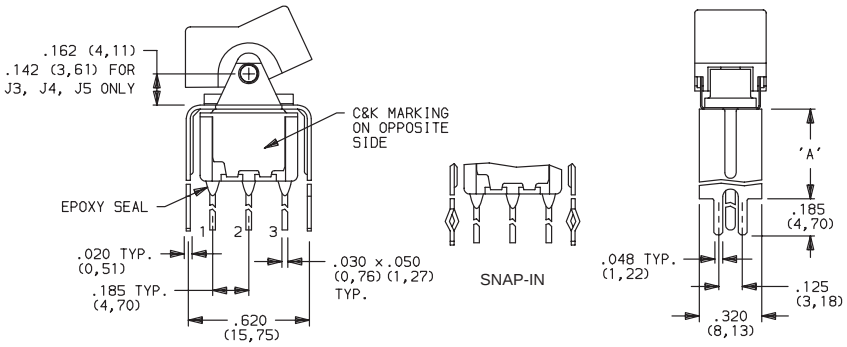
Rocker

C&K 7000 Series Rocker and Lever Handle Switches

TERMINATIONS

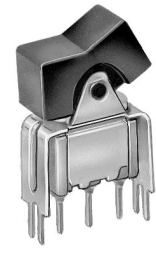
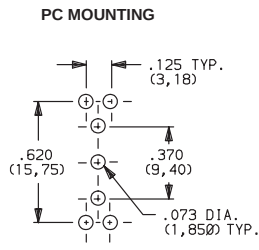
V3, V4, V9 VERTICAL MOUNT, V-BRACKET

V31, V41, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown in Pos. 1

Not available with I seal option.
Available actuators, see pages F-13 and F-14.

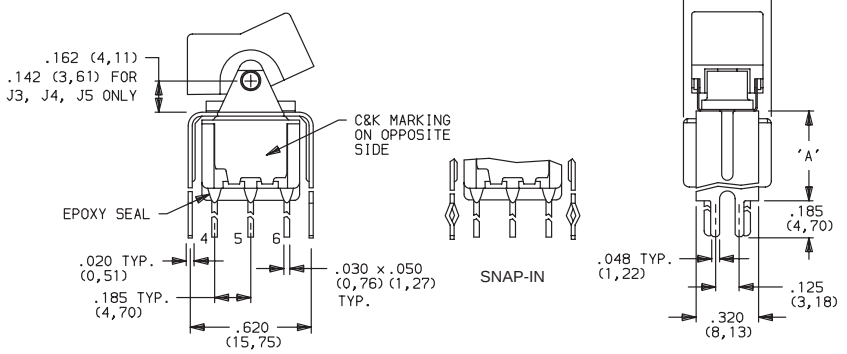


7101J1_BE2
SPDT

OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4, V41	.630 (16,00)
V9, V91	1.150 (29,21)

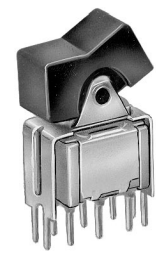
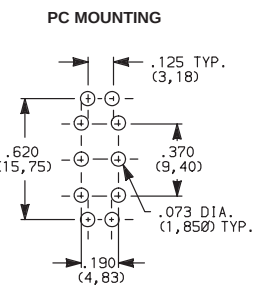
V3, V4, V9 VERTICAL MOUNT, V-BRACKET

V31, V41, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown in Pos. 1

Not available with I seal option.
Available actuators, see pages F-13 and F-14.

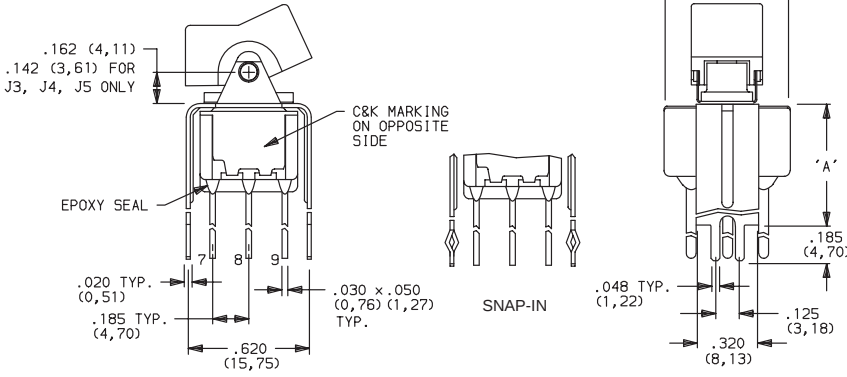


7201J1_BE2
DPDT

OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4, V41	.630 (16,00)
V9, V91	1.150 (29,21)

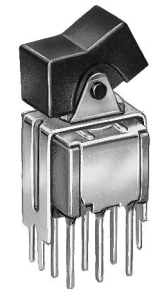
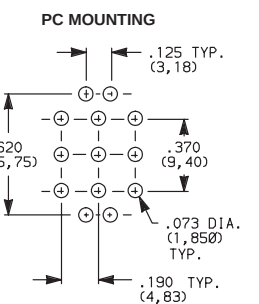
V4, V9 VERTICAL MOUNT, V-BRACKET

V41, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown in Pos. 1

Not available with I seal option.
Available actuators, see pages F-13 and F-14.



7301J1_BE2
3PDT

OPTION CODE	DIM 'A'
V4, V41	.630 (16,00)
V9, V91	1.150 (29,21)

C&K 7000 Series Rocker and Lever Handle Switches

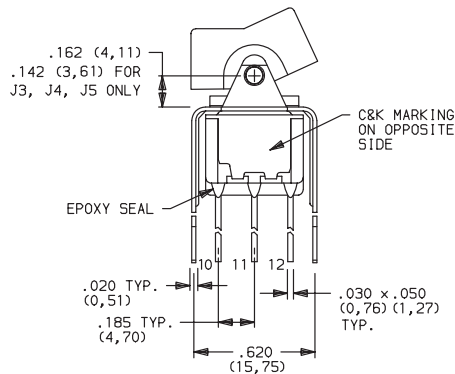
TERMINATIONS

V4, V9 VERTICAL MOUNT, V-BRACKET

V41, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN

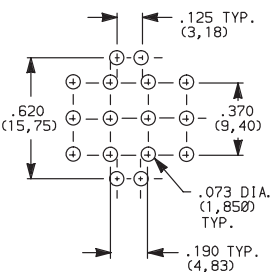


7401J1_BE2
4PDT



Actuator Shown In Pos. 1

PC MOUNTING



OPTION CODE	DIM 'A'
V4, V41	.630 (16,00)
V9, V91	1.150 (29,21)

Not available with I seal option.
Available actuators, see pages F-13 and F-14.

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B (STD.)	GOLD ¹	GOLD ¹	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
K		TIN-LEAD ⁶		
Q (STD.)	SILVER ^{4,5}	SILVER ⁵	POWER	5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.
M		TIN-LEAD ⁶		
G	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/ DRY CIRCUIT OR POWER	0.4 VA MAX. @ 20 V AC OR DC MAX. OR 5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.
L		TIN-LEAD ⁶		

CONTACT MATERIAL/APPLICATION RECOMMENDATIONS—SEE CHART, PAGE L-31.

- ¹ CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- ² END CONTACTS: Coin silver, with gold plate over nickel plate.
- ³ CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- ⁴ END CONTACTS: Coin silver, silver plated.
- ⁵ CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- ⁶ TERMINALS: Copper alloy, with tin-lead alloy over nickel plate.

U11-U415 model numbers with all options when ordered with G, L, M or Q contact material.

B contact material standard with all terminations except C, Z & Z3.

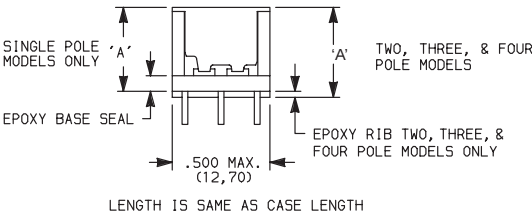
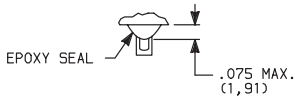
Q contact material standard with C, Z & Z3 terminations.

K, L & M contact materials not available with Z & Z3 terminations.

SEAL

E (STD.) EPOXY SEAL

I EPOXY POTTED BASE



NO. POLES	DIM 'A'
SP	.410 (10,41)
DP	.440 (11,18)
3P	.505 (12,83)
4P	.505 (12,83)

Available with C, W-W5, Z & Z3 terminations.