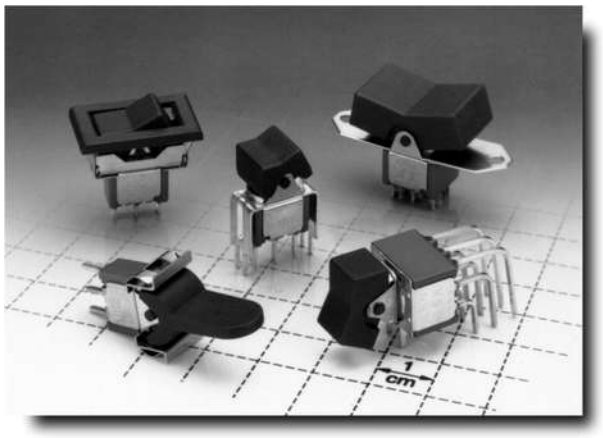
Models Available

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.

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

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
- W .750" long, wire wrap
- W1 .964" long, wire wrap
- W3 .425" long, wire wrap
- W4 1.062" long, wire wrap
- W5 1.305" long, wire wrap
- Z3 Quick connect

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

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: 10^9 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.

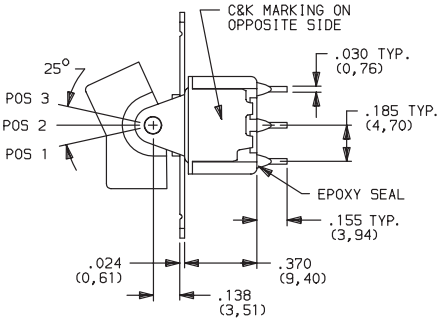
TERMINAL SEAL: Epoxy.

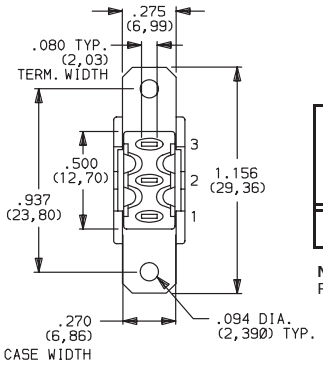
HARDWARE: Mounting nuts & screws: Brass. Lockwasher: Stainless steel. Standoff: Nylon standard, aluminum available, consult Customer Service Center.

SWITCHES WITH STANDARD OPTIONS



7101J1ZQE2
SPDT



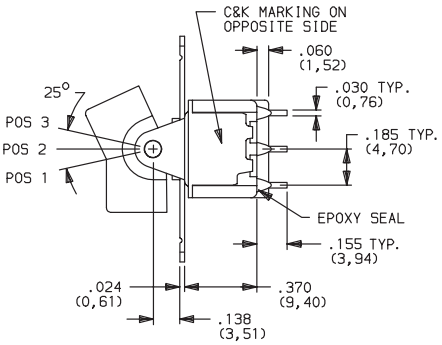


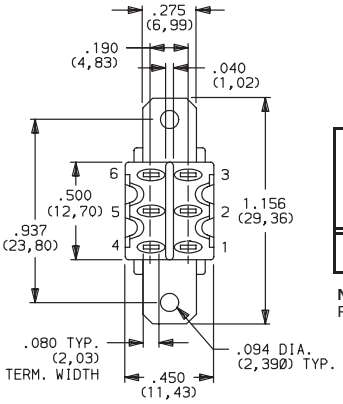
PART NUMBER	POS. 1	POS. 2	POS. 3
7101J1ZQE2	ON	NONE	ON

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



7201J1ZQE2
DPDT





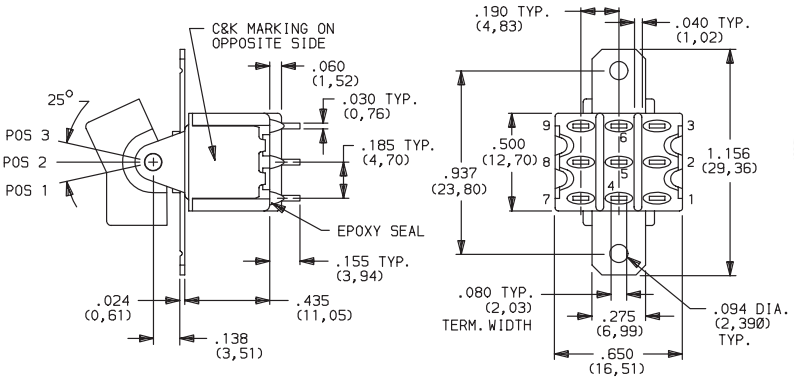
PART NUMBER	POS. 1	POS. 2	POS. 3
7201J1ZQE2	ON	NONE	ON

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

SWITCHES WITH STANDARD OPTIONS

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

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

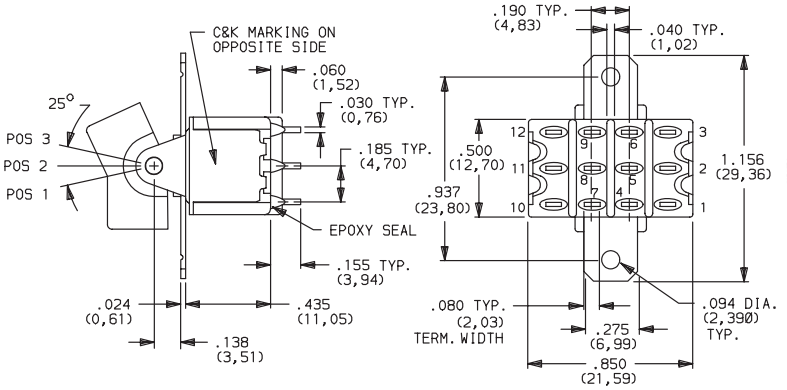




7301J1ZQE2
3PDT

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

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

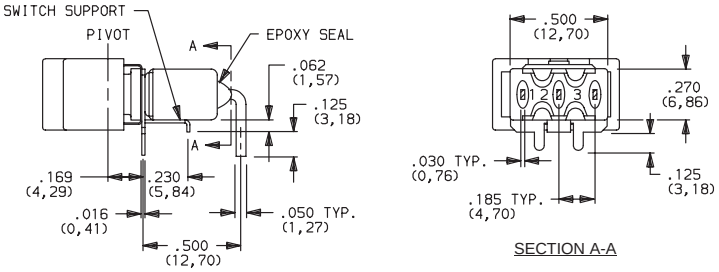




7401J1ZQE2
4PDT

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

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

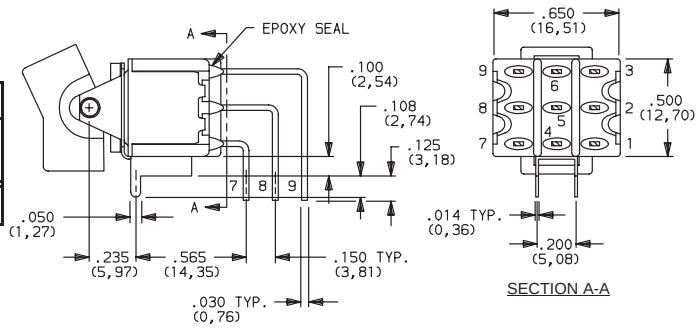




7101J1ABE2
Horizontal Actuation
SPDT

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

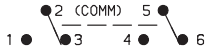
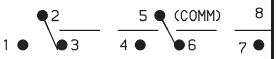
NOTE: For PC mounting information, see page F-17.





7301J1AV2QE2
Vertical Actuation
3PDT

SWITCH FUNCTION

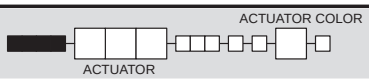
NO. POLES	MODEL NO.	UL/CSA** MODEL NO.	SWITCH FUNCTION POS. 1	SWITCH FUNCTION POS. 2	SWITCH FUNCTION POS. 3	CONNECTED TERMINALS POS. 1	CONNECTED TERMINALS POS. 2	CONNECTED TERMINALS POS. 3	SCHEMATIC
SP	7101 (STD.)	U11	ON	NONE	ON	2-3	OPEN	2-1	
	7103 (STD.)	U13	ON	OFF	ON				
	7105	U15	MOM.	OFF	MOM.				
	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	3PDT
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.

ACTUATOR—PANEL REAR MOUNT



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

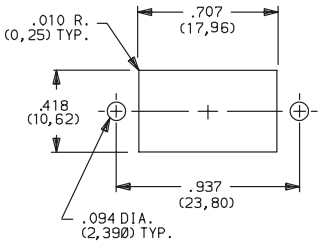
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

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.

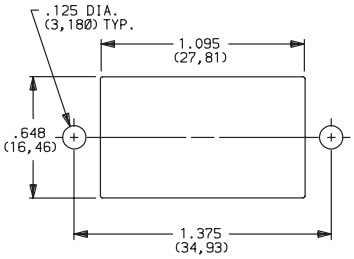
J1, J2, J3, J8 & J10 Actuators available with C, W-W5, Z or Z3 terminations.

PANEL MOUNTING

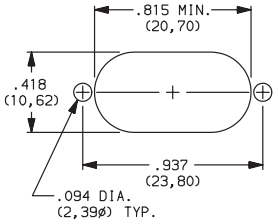
J1 & J2 Actuators



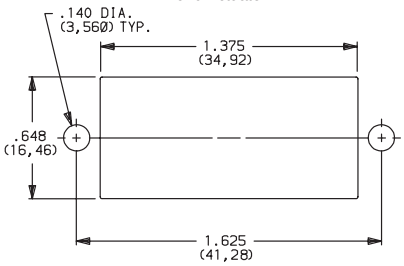
J3 Actuator



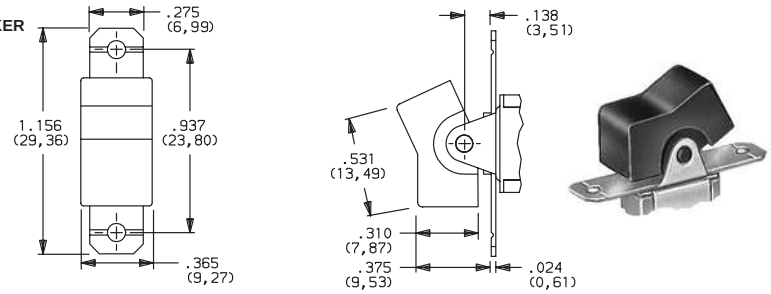
J8 Actuator



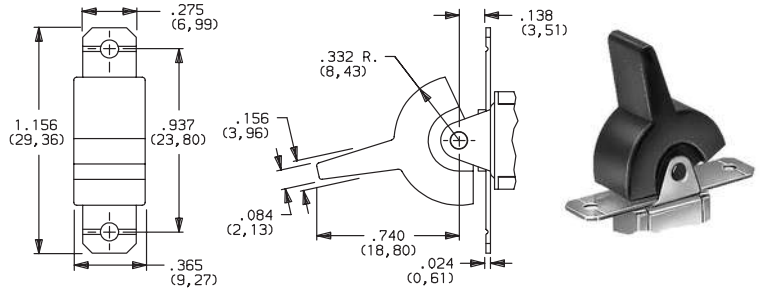
J10 Actuator



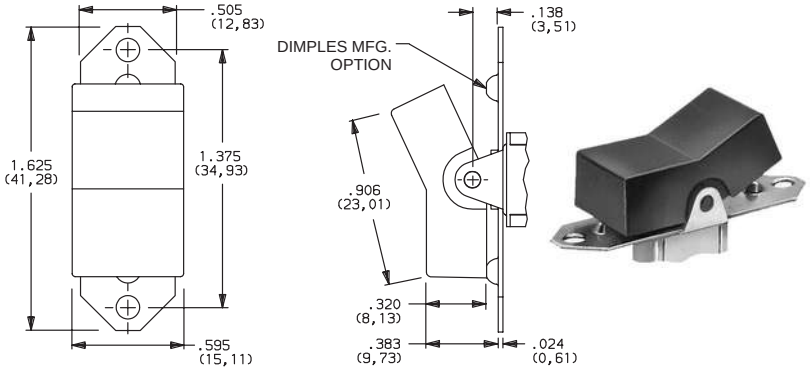
J1 (STD.) ROCKER



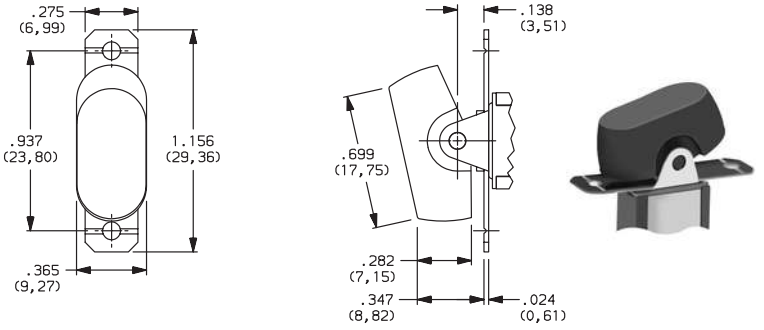
J2 LEVER



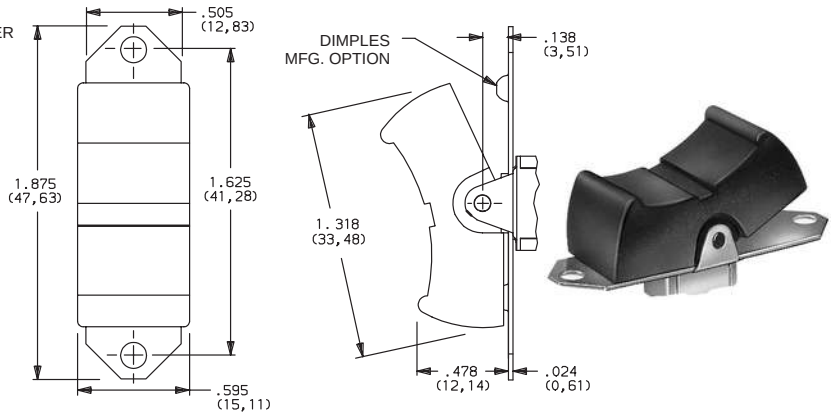
J3 ROCKER



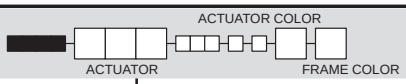
J8 ROCKER



J10 ROCKER



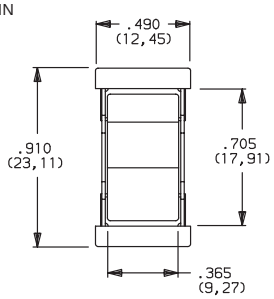
ACTUATOR—SNAP-IN FRONT MOUNT

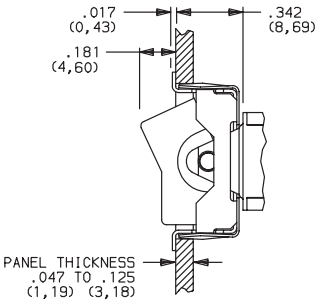


J15 ROCKER WITH FRAME, SNAP-IN



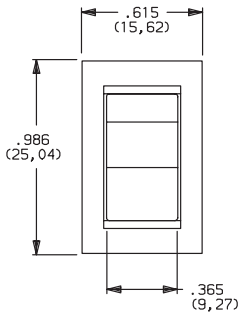
No frame color choice required.

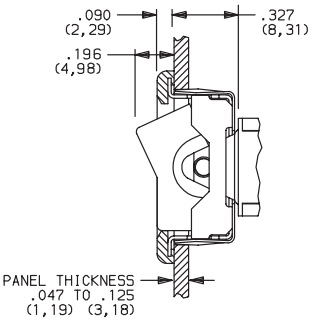




J16 ROCKER, SNAP-IN



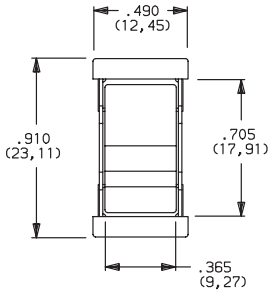


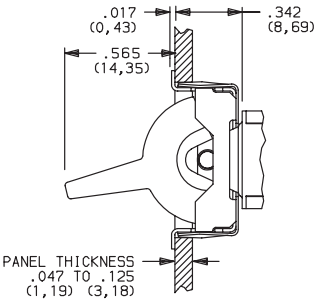


J25 LEVER, SNAP-IN



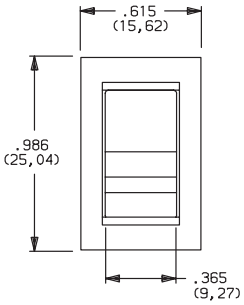
No frame color choice required.

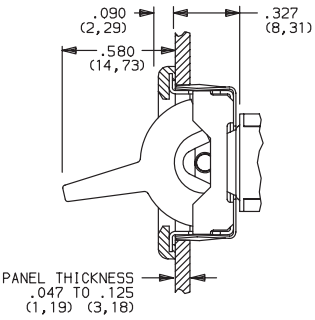




J26 LEVER WITH FRAME, SNAP-IN

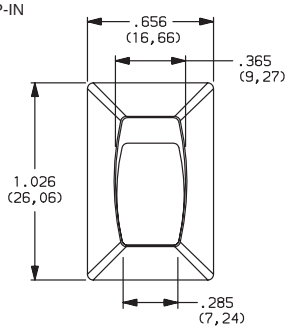


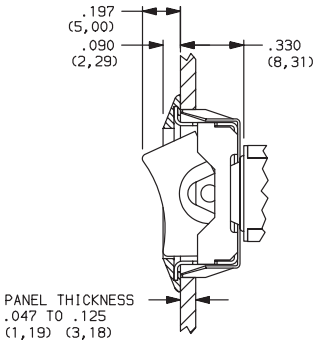




J76 ROCKER WITH FRAME, SNAP-IN







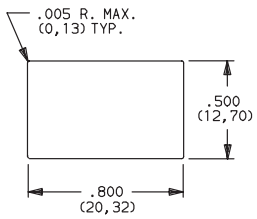
OPTION CODE	ACTUATOR COLOR
2	(STD.) BLACK
1	WHITE
3	RED

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

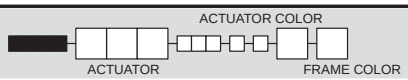
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

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.

PANEL MOUNTING



ACTUATOR—SNAP-IN FRONT MOUNT



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

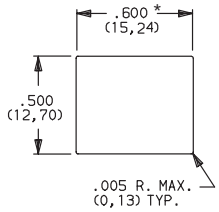
OPTION CODE	FRAME COLOR
2	**(STD.) BLACK**
NONE	No Frame Color (J50 or J53 options)
1	WHITE
3	RED

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

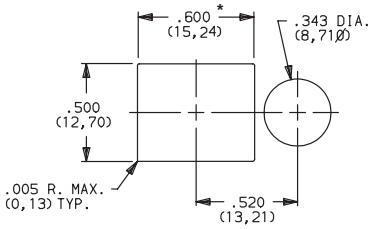
NOTE: Frames are available separately, see section L. J50, J51, J52 & J53 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

PANEL MOUNTING

J50, J51 & J53 Actuators

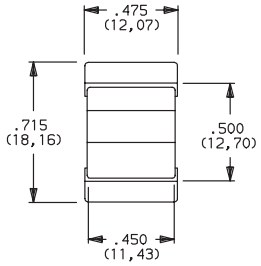


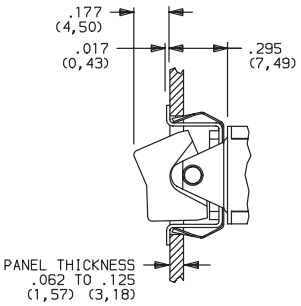
J52 Actuator



* 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

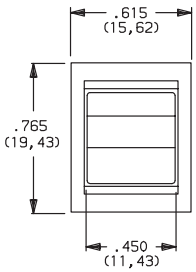


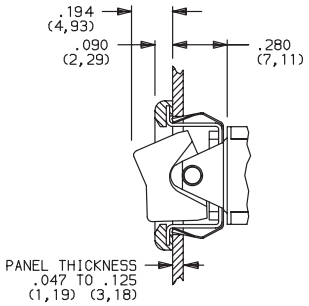




No frame color choice required.

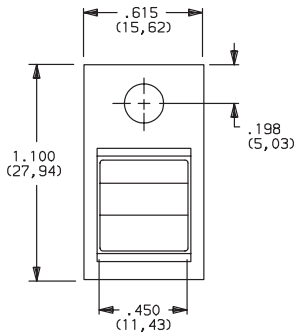
J51 ROCKER WITH FRAME, SNAP-IN

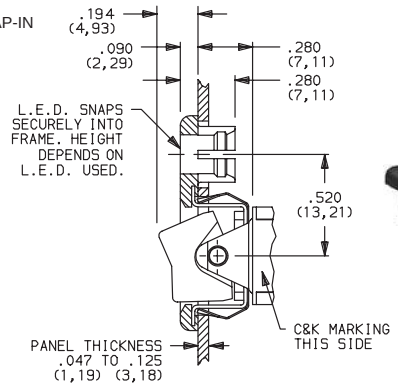






J52 ROCKER WITH FRAME & LED, SNAP-IN

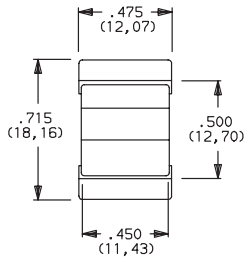


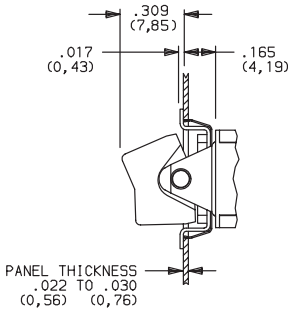




LED not included.
For LED information, see page L-30.

J53 ROCKER, SNAP-IN



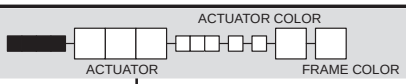




No frame color choice required.

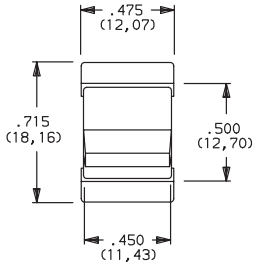
F Rocker

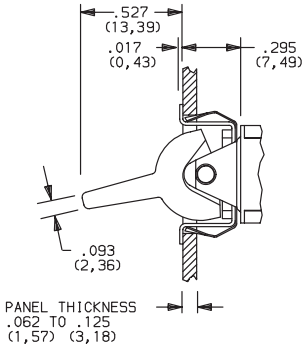
ACTUATOR—SNAP-IN FRONT MOUNT



J60 LEVER, SNAP-IN





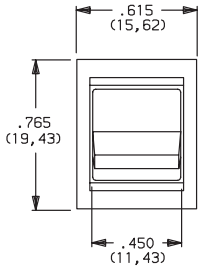


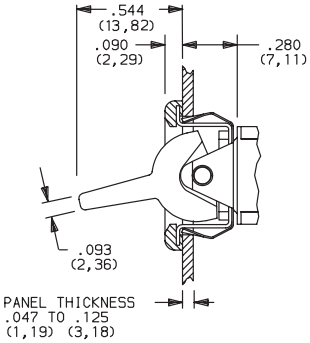
No frame color choice required.

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

J61 LEVER WITH FRAME, SNAP-IN







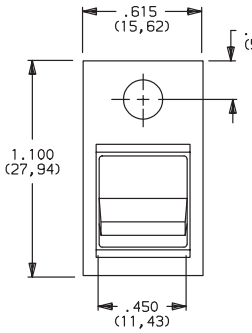
OPTION CODE	FRAME COLORS
2	(STD.) BLACK
NONE	No Frame Color (J60 or J63 options)
1	WHITE
3	RED

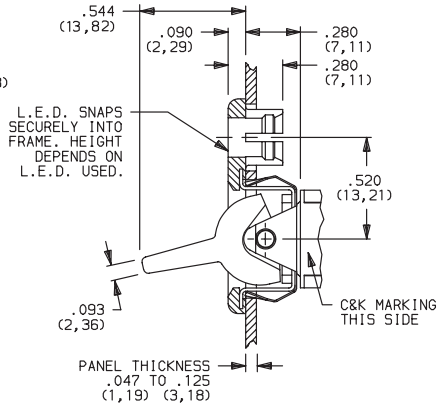
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

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



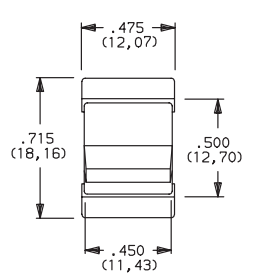


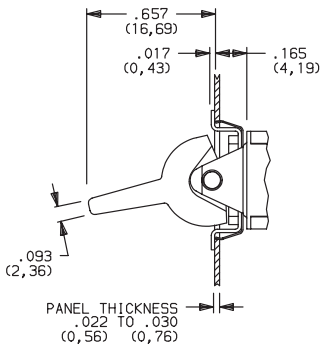


LED not included.
For LED information, see page L-30.

J63 LEVER, SNAP-IN



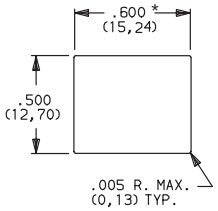




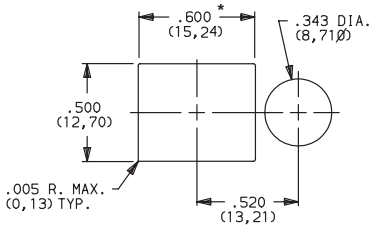
No frame color choice required.

PANEL MOUNTING

J60, J61 & J63 Actuators

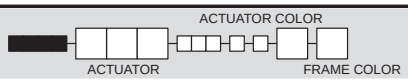


J62 Actuator



* 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.

ACTUATOR—SNAP-IN FRONT MOUNT



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

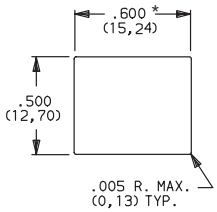
OPTION CODE	FRAME COLOR
2	**(STD.) BLACK**
NONE	No Frame Color (J90 or J93 options)
1	WHITE
3	RED

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

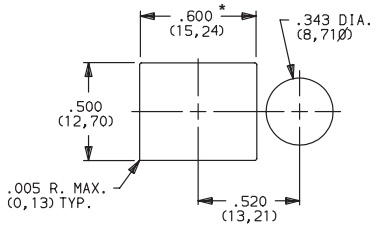
NOTE: Frames are available separately, see section L. J90, J91, J92 & J93 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z & Z3 terminations.

PANEL MOUNTING

J90, J91 & J93 Actuators

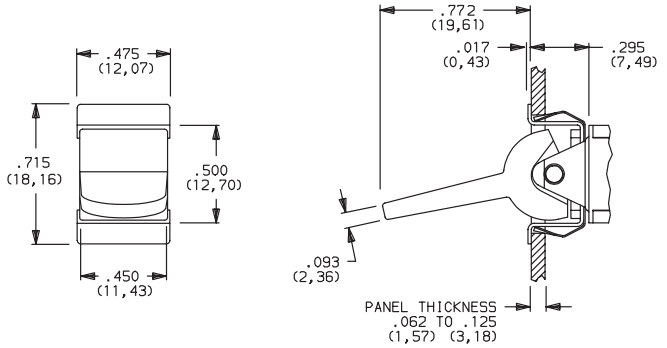


J92 Actuator



* 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.

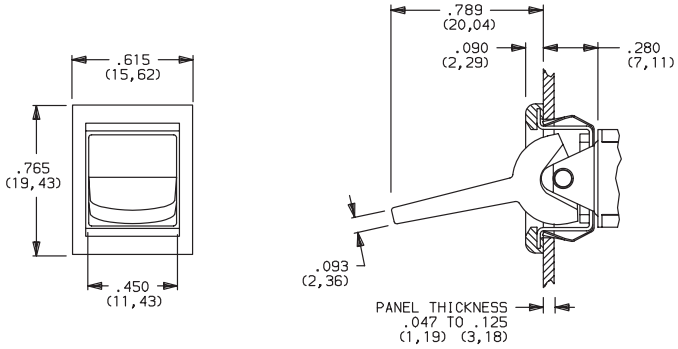
J90 LEVER, SNAP-IN





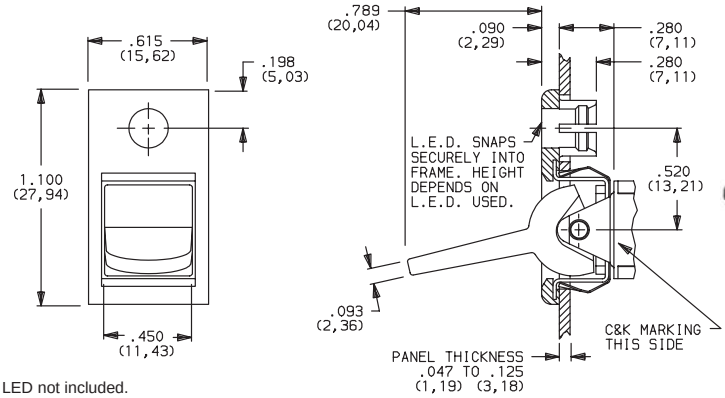
No frame color choice required.

J91 LEVER WITH FRAME, SNAP-IN





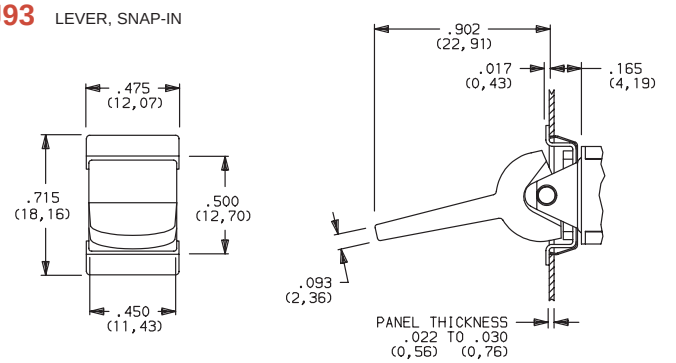
J92 LEVER WITH FRAME & LED, SNAP-IN





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

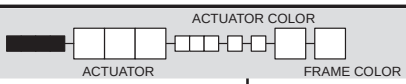
J93 LEVER, SNAP-IN





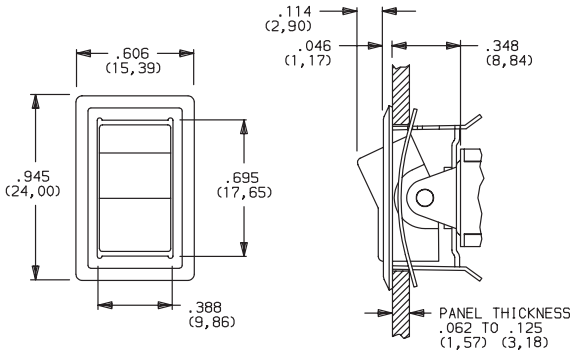
No frame color choice required.

ACTUATOR—REAR MOUNT



J11 ROCKER WITH FRAME

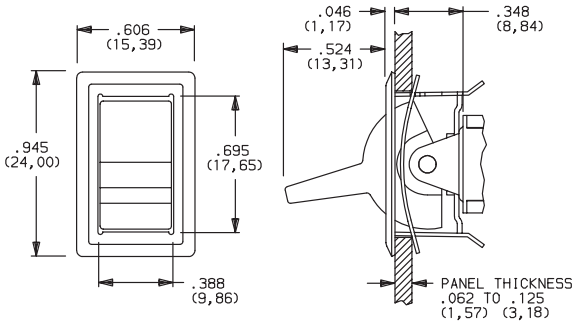




OPTION CODE	ACTUATOR COLOR
2	**(STD.) BLACK**
1	WHITE
3	RED

J21 LEVER WITH FRAME





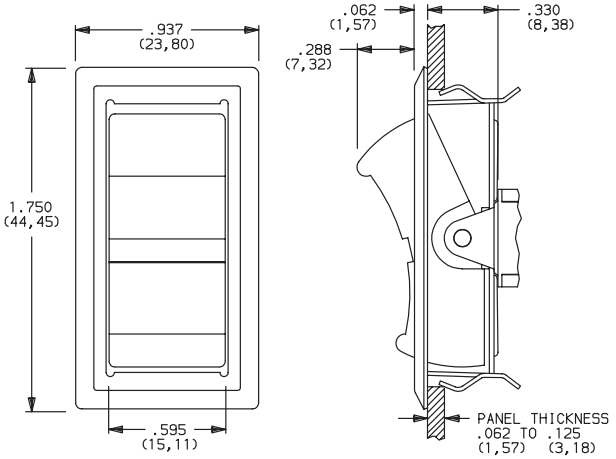
OPTION CODE	FRAME COLOR
2	**(STD.) BLACK**
1	WHITE
C	BRIGHT CHROME
S	SATIN CHROME

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.

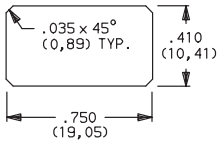
J19 ROCKER WITH FRAME



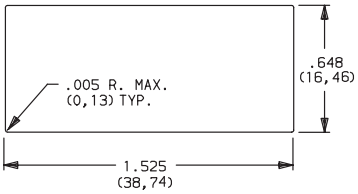


PANEL MOUNTING

J11 & J21 Actuators

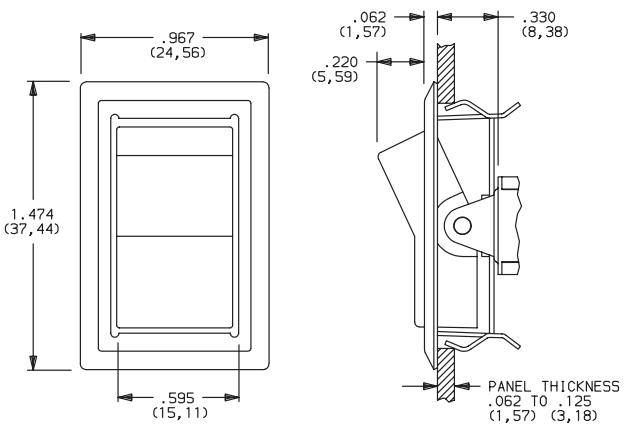


J19 Actuator

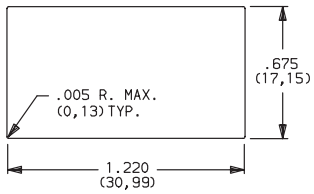


J37 ROCKER WITH FRAME



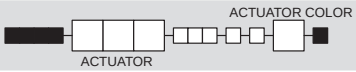


J37 Actuator



F
Rocker

ACTUATOR—PC MOUNT



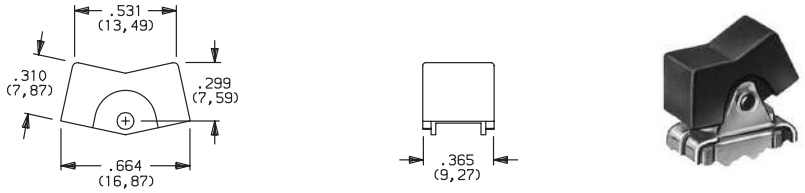
OPTION CODE	ACTUATOR COLOR
2	**(STD.) BLACK**
1	WHITE
3	RED

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

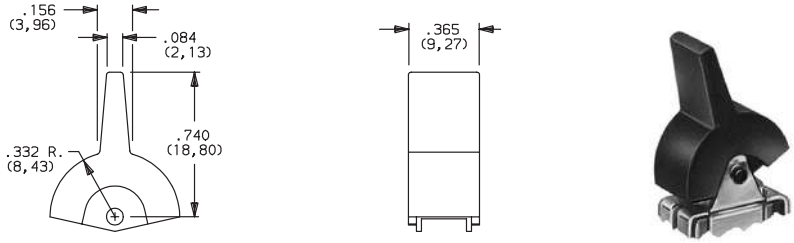
NOTE: Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

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.

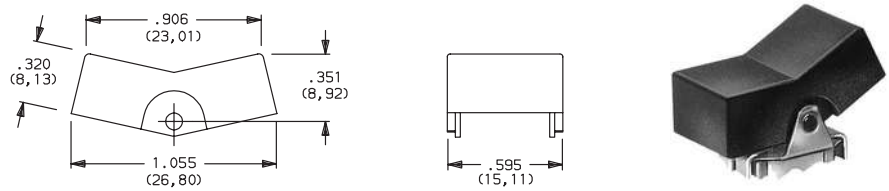
J1 (STD.) ROCKER



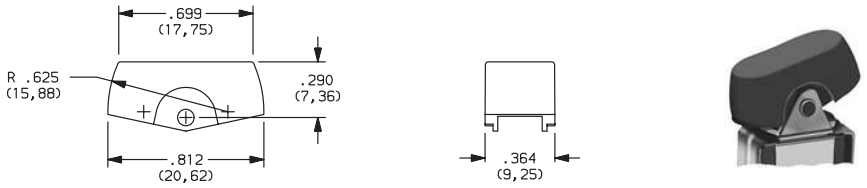
J2 LEVER



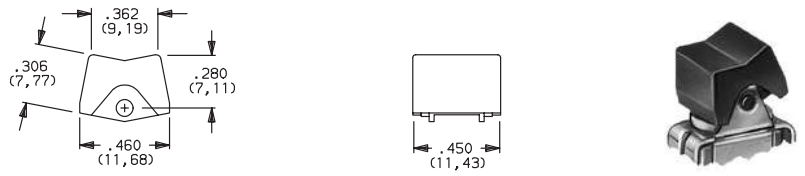
J3 ROCKER



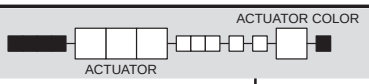
J8 ROCKER



J50 ROCKER

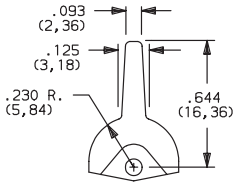


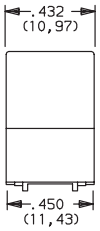
ACTUATOR—PC MOUNT



J60 LEVER

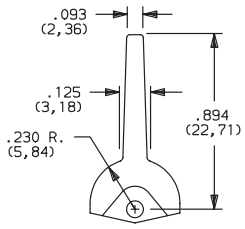


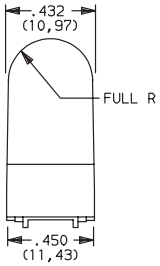




J90 LEVER







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.

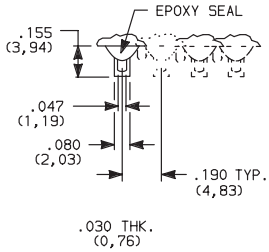
NOTE: Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

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.

TERMINATIONS



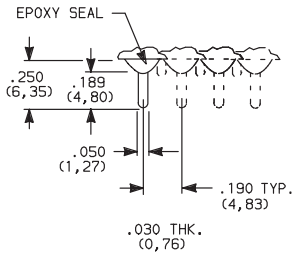
Z (STD.) SOLDER LUG



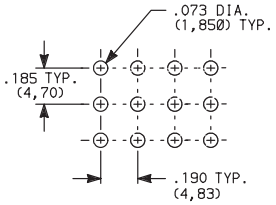
SPDT thru 4PDT

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

C (STD.) PC THRU-HOLE



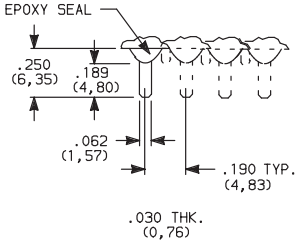
PC MOUNTING



SPDT thru 4PDT

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

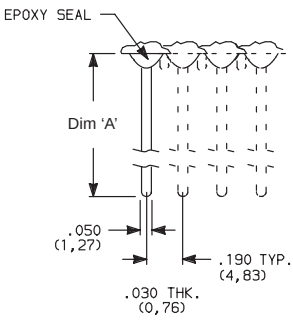
Z3 QUICK CONNECT



SPDT thru 4PDT

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.

W, W1, W3, W4, W5 WIRE WRAP



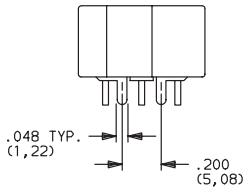
OPTION CODE	DIM 'A'
W	.750 (19,05)
W1	.964 (24,49)
W3	.425 (10,80)
W4	1.062 (26,97)
W5	1.305 (33,15)

SPDT thru 4PDT

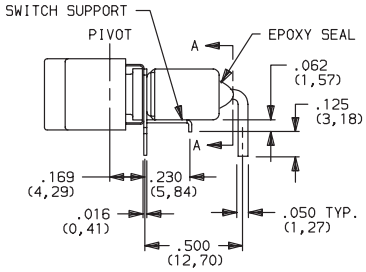
NOTE: Available actuators, see pages F-7 thru F-14.

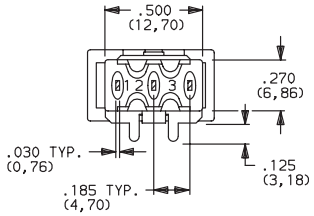
TERMINATIONS

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



Actuator Shown In Pos. 1





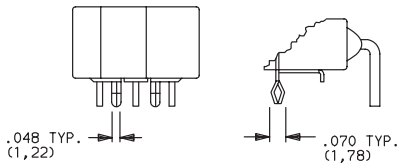
SECTION A-A

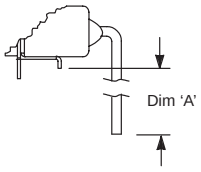


7101J1ABE2
Horizontal Actuation
SPDT

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

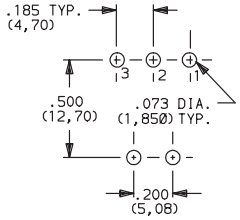
AW, AW1, AW3, AW4, AW5 RIGHT ANGLE, EXTENDED, PC THRU-HOLE





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)

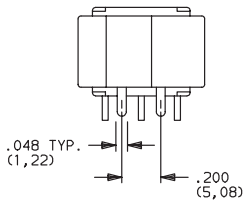
PC MOUNTING



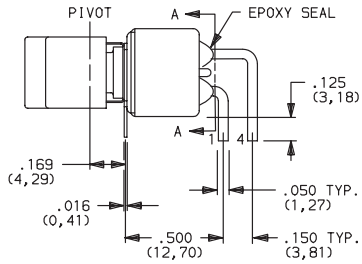
NOTE: PC pattern must clear switch support leg.

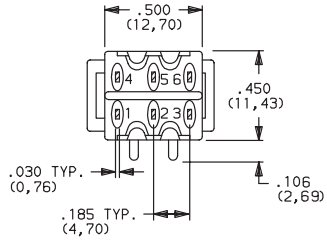
Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

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



Actuator Shown In Pos. 1





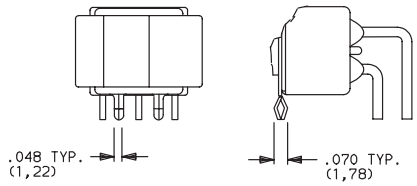
SECTION A-A

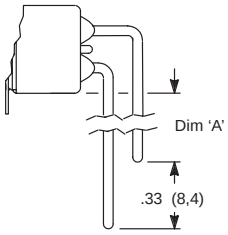


7201J1ABE2
Horizontal Actuation
DPDT

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

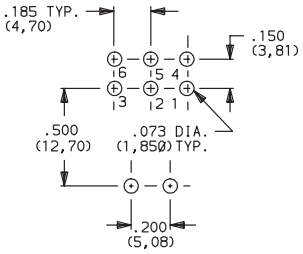
AW, AW1, AW4, AW5 RIGHT ANGLE, EXTENDED, PC THRU-HOLE





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

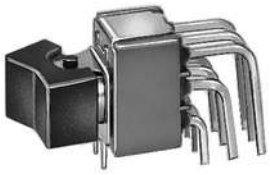
PC MOUNTING



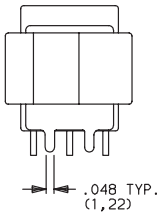
Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

TERMINATIONS

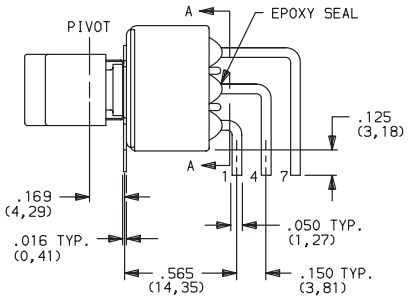
A (STD.) RIGHT ANGLE, PC THRU-HOLE

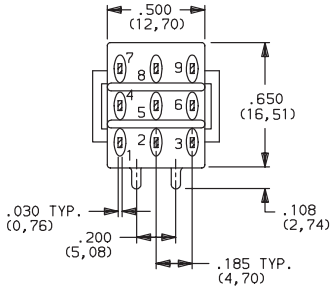


7301J1ABE2
Horizontal Actuation
3PDT



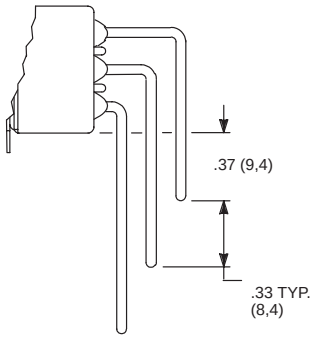
Actuator Shown In Pos. 1



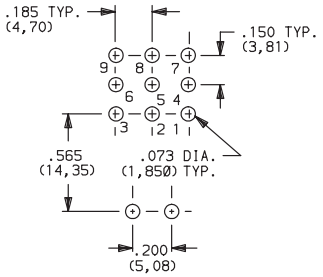


SECTION A-A

AW4 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



PC MOUNTING

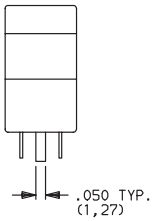


Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

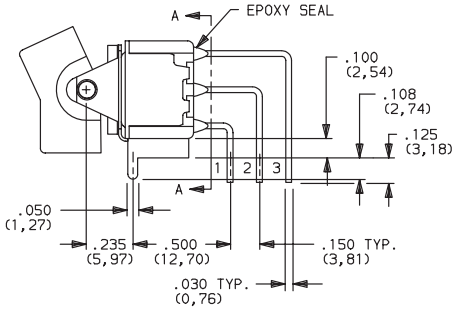
AV2 (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH

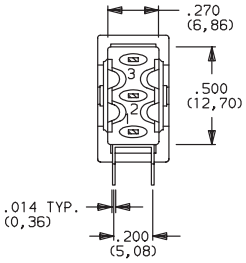


7101J1AV2BE2
Vertical Actuation
SPDT



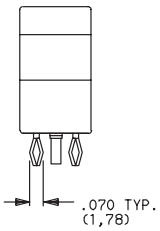
Actuator Shown In Pos. 1

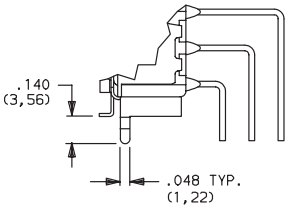




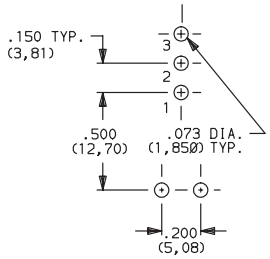
SECTION A-A

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





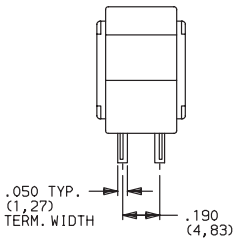
PC MOUNTING



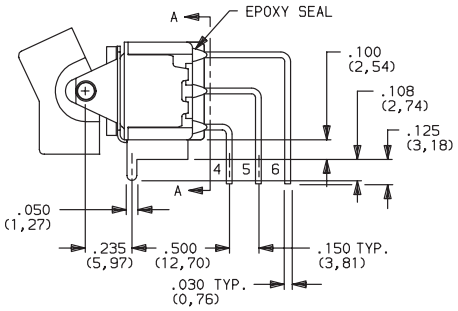
Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

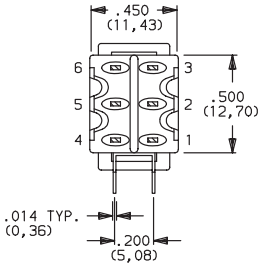
TERMINATIONS

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



Actuator Shown In Pos. 1



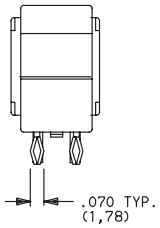


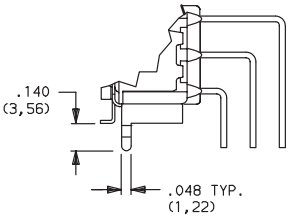
SECTION A-A



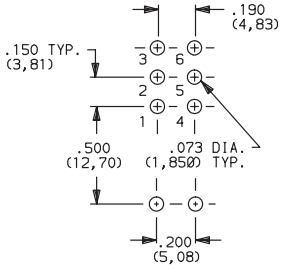
7201J1AV2BE2
Vertical Actuation
DPDT

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



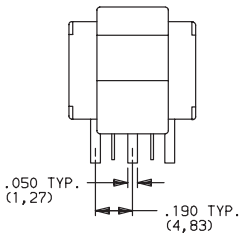


PC MOUNTING

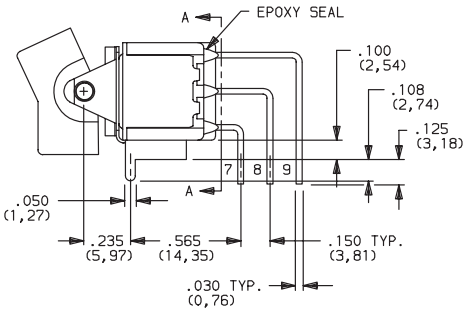


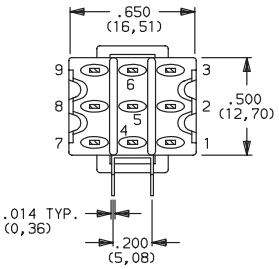
Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

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



Actuator Shown In Pos. 1



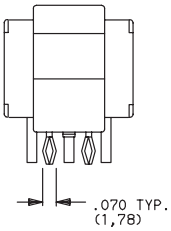


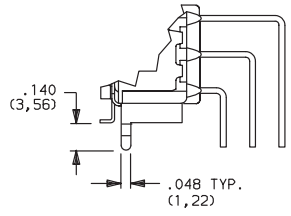
SECTION A-A



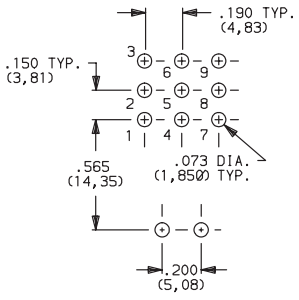
7301J1AV2BE2
Vertical Actuation
3PDT

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





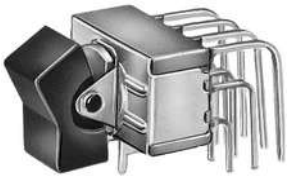
PC MOUNTING



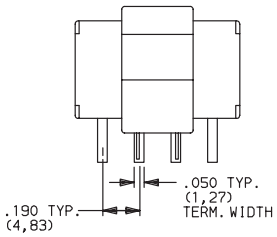
Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

TERMINATIONS

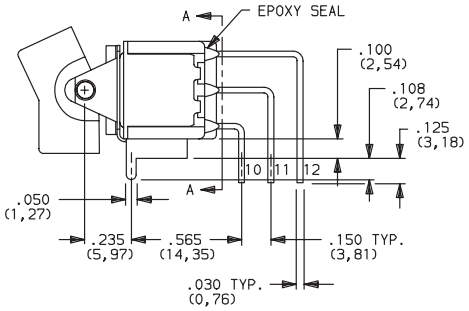
AV2 (STD.) VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH

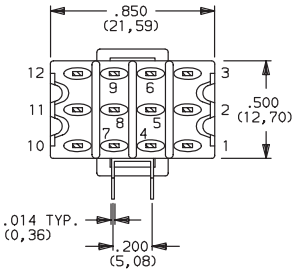


7401J1AV2BE2
Vertical Actuation
4PDT



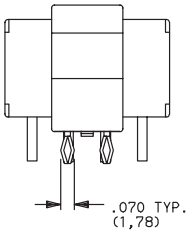
Actuator Shown In Pos. 1

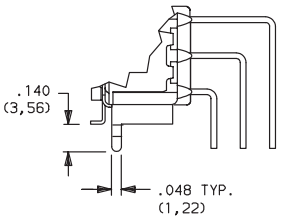




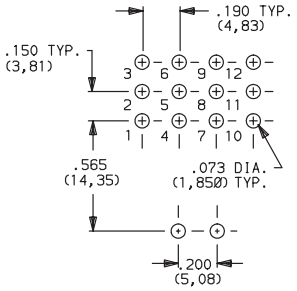
SECTION A-A

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





PC MOUNTING

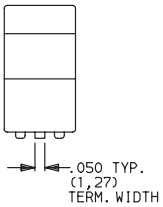


Not available with I seal option. Available actuators, see pages F-13 and F-14.
Terminal bend radii and lead-in manufacturing option.

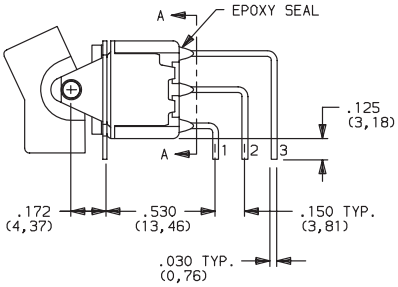
V5 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH

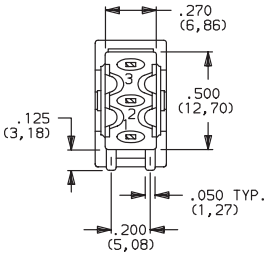


7101J1V5BE2
Vertical Actuation
SPDT



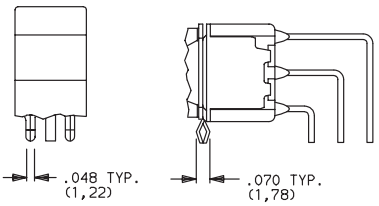
Actuator Shown In Pos. 1



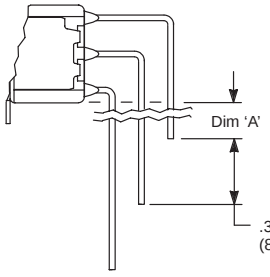


SECTION A-A

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

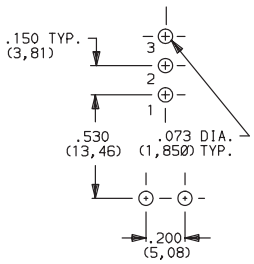


V54, V55 VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH



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

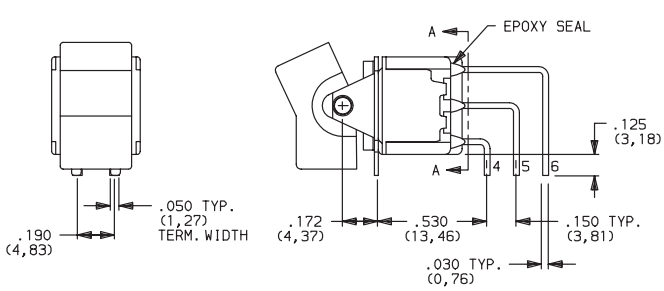
PC MOUNTING



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

TERMINATIONS

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



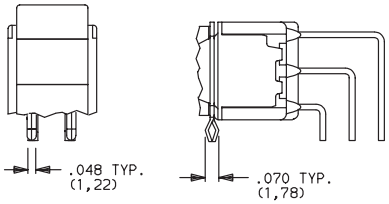
Actuator Shown In Pos. 1

SECTION A-A

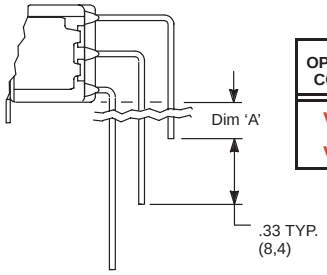


7201J1V5BE2
Vertical Actuation
DPDT

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

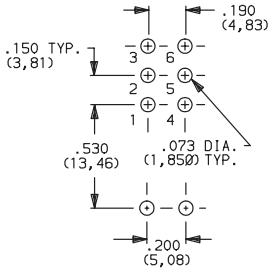


V54, V55 VERTICAL RIGHT ANGLE, EXTENDED, PC THRU-HOLE, .150" PITCH



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

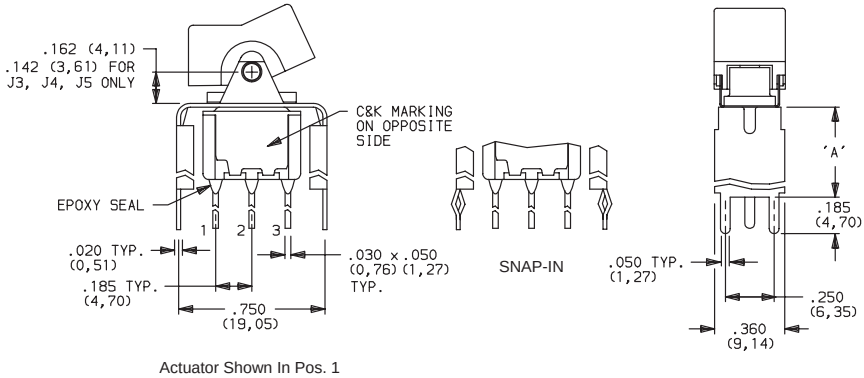
PC MOUNTING



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

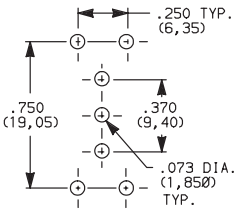
V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET

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



Actuator Shown In Pos. 1

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.

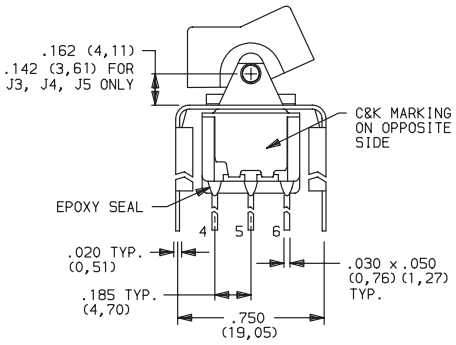
TERMINATIONS

V2, V6, V7, V8 VERTICAL MOUNT, V-BRACKET
V21, V61, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN

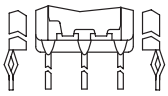


7201J1__BE2

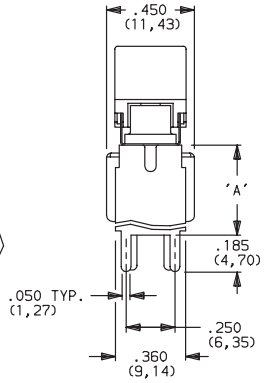
DPDT



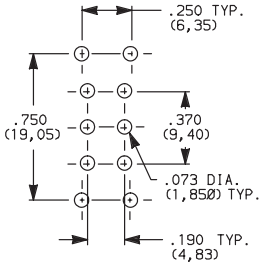
Actuator Shown In Pos. 1



SNAP-IN



PC MOUNTING



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

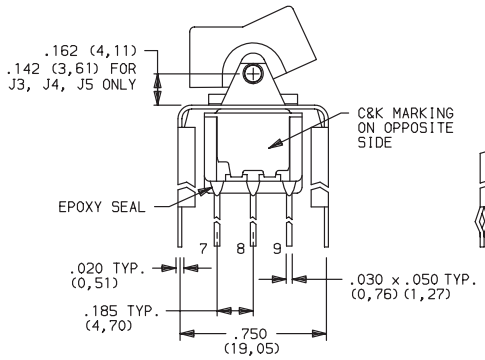
Not available with I seal option.
Available actuators, see pages F-13 and F-14.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET
V21, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN

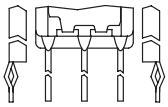


7301J1__BE2

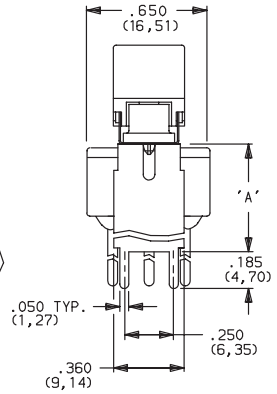
3PDT



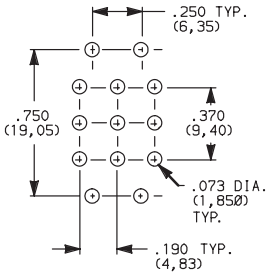
Actuator Shown In Pos. 1



SNAP-IN



PC MOUNTING



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

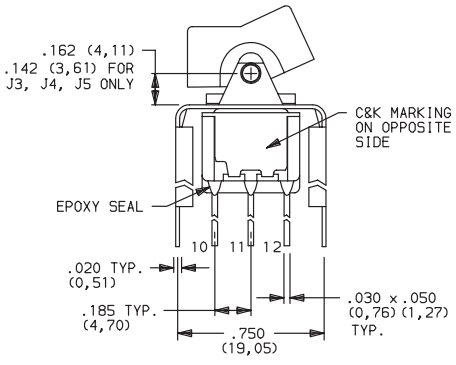
Not available with I seal option.
Available actuators, see pages F-13 and F-14.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET
V21, V71, V81 VERTICAL MOUNT, V-BRACKET, SNAP-IN

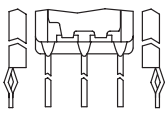


7401J1__BE2

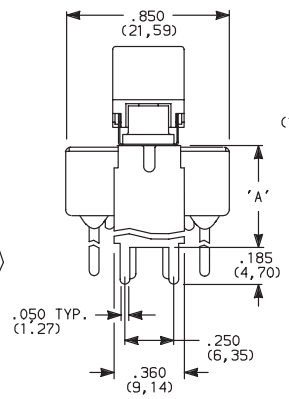
4PDT



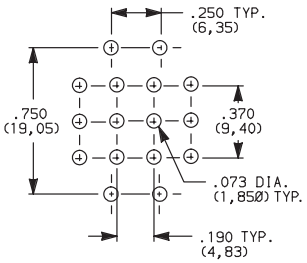
Actuator Shown In Pos. 1



SNAP-IN



PC MOUNTING

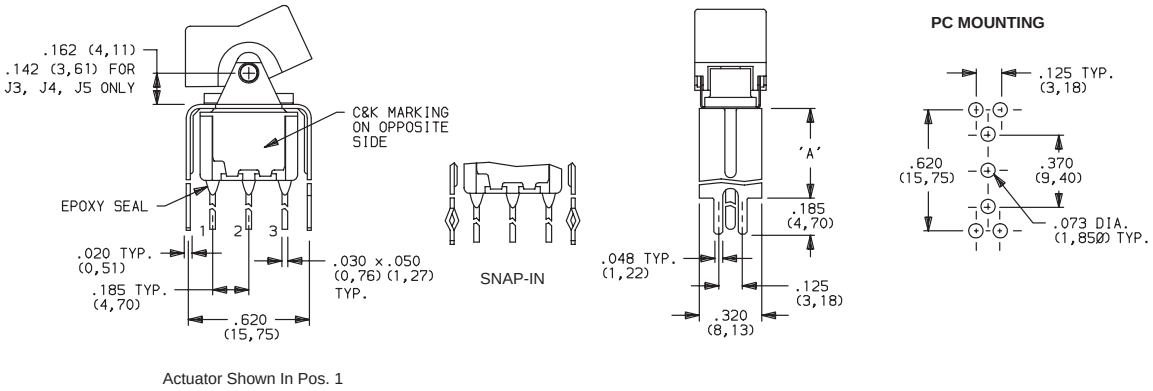


OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V7, V71	.630 (16, 00)
V8, V81	.953 (24, 21)

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

TERMINATIONS

V3, V4, V9 VERTICAL MOUNT, V-BRACKET
V31, V41, V91 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1

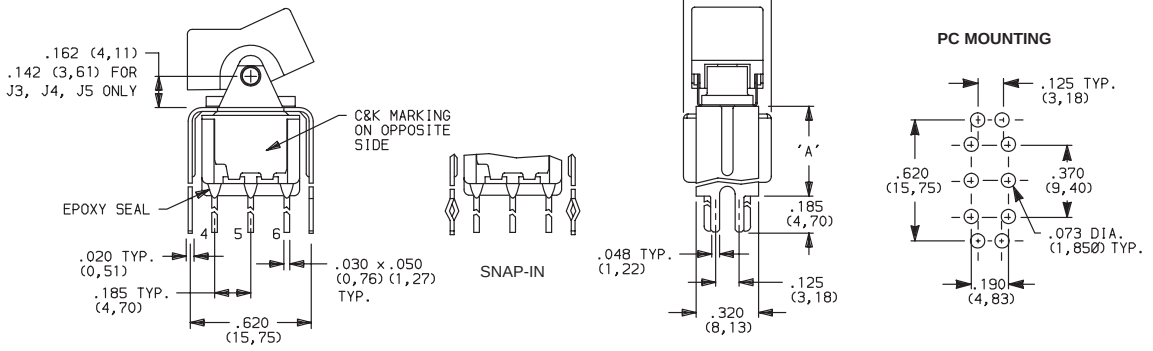
Not available with I seal option.
Available actuators, see pages F-13 and F-14.



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

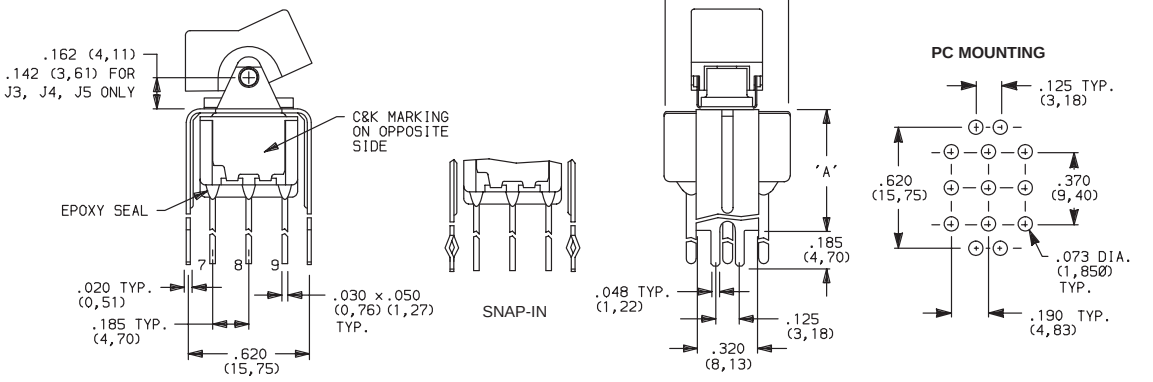
Not available with I seal option.
Available actuators, see pages F-13 and F-14.



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.



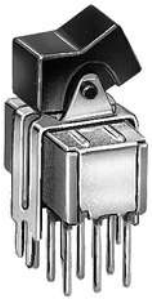
7301J1__BE2
3PDT

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

TERMINATIONS

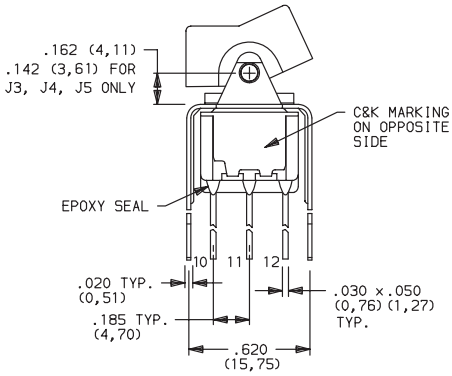
V4, V9 VERTICAL MOUNT, V-BRACKET

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

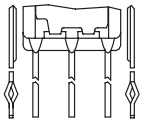


7401J1__BE2

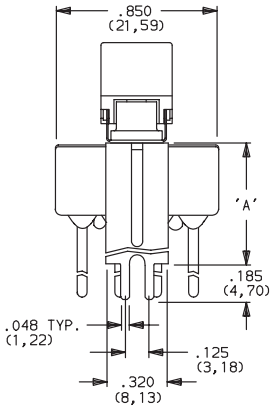
4PDT



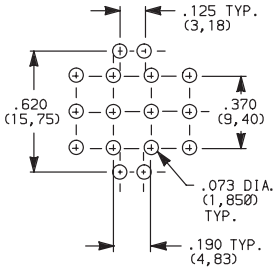
Actuator Shown In Pos. 1



SNAP-IN



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.

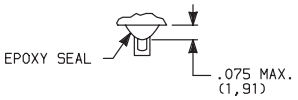
B contact material standard with all terminations except C, Z & Z3.

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

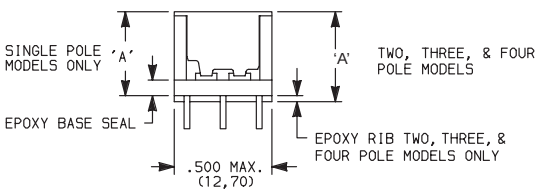
K, L & M contact materials not available with Z & Z3 terminations.

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.