

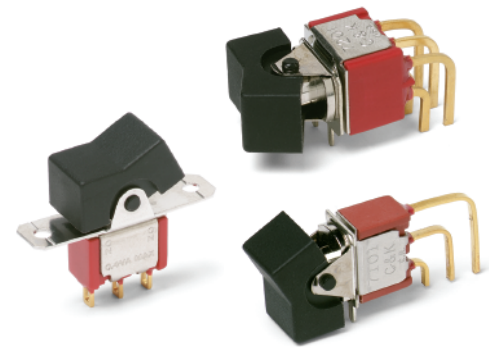
7000 Series Miniature Rocker & Lever Handle Switches

Features/Benefits

- Multi-pole and multi-position
- Wide variety of actuator and termination options
- Epoxy terminal-seal compatible with bottom wash cleaning
- RoHS compliant

Typical Applications

- Telecommunications
- Instrumentation
- Medical equipment



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 G-20 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 m Ω typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10⁹ Ω min.

DIELECTRIC STRENGTH: 1000 Vrms 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: Any models supplied with S, P, R, Q, B or G contact material are RoHS compliant.

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

Materials

CASE: Glass filled nylon 6/6, 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, matte-tin plated.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page G-20 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 G-20 for additional contact materials.

TERMINAL SEAL: Epoxy. Refer to Soldering and Cleaning in Technical Data Section

HARDWARE: Mounting nuts & screws: Brass. Lockwasher: Stainless steel. Standoff: Nylon standard.

Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-4 through G-24. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.

Switch Function			
7101	SP On-None-On		
7103	SP On-Off-On		
7105	SP Mom.-Off-Mom.		
7107	SP On-Off-Mom.		
7108	SP On-None-Mom.		
7109	SP None-On-Mom.		
7201	DP On-None-On		
7203	DP On-Off-On		
7205	DP Mom.-Off-Mom.		
7207	DP On-Off-Mom.		
7208	DP On-None-Mom.		
7211	DP On-On-On		
7213	DP On-On-Mom.		
7215	DP Mom.-On-Mom.		
7301	3P On-None-On		
7303	3P On-Off-On		
7401	4P On-None-On		
7405	4P Mom.-Off-Mom.		
7411	4P On-On-On		

Actuator	
J1	.531" long rocker
J2	Lever
J3	.906" long rocker
J8	.699" long rocker
J10	1.318" long rocker
J11	Rocker with frame
J15	Rocker, snap-in
J16	Rocker with frame, 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 for LED, snap-in
J60	Lever
J61	Lever with frame, snap-in
J62	Lever with frame for LED, snap-in
J90	Lever
J91	Lever with frame, snap-in

Terminations	
A	Right angle, PC thru-hole
AV2	Vertical right angle, PC thru-hole
C	PC Thru-hole
Z	Solder lug
A3	Right angle, snap-in, PC thru-hole
AV3	Vertical right angle, snap-in, PC thru-hole
AW3	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
V31	.460" high, V-bracket, snap-in
V51	Vertical right angle, snap-in
V61	.460" high, V-bracket, snap-in
W	.750" long, wire wrap
W3	.425" long, wire wrap
W5	1.305" long, wire wrap
Z3	Quick connect

Contact Material	
B	Gold
P	Gold, matte tin
Q	Silver
S	Silver, matte-tin
G	Gold over silver
R	Gold over silver, matte-tin

Seal	
E	Epoxy
I	Epoxy potted base

Actuator Color	
2	Black
1	White
3	Red

Frame Color	
2	Black
NONE	No frame color required
1	White

Metal Frame Color (J11, J19, J21 & J37 Actuators)	
2	Black
1	White

Note: UL models available, see pages G-5 and G-6.



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

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SWITCH FUNCTION

SPDT

Part number shown: 7101J1ZQE2

The drawing shows two views of the SPDT switch assembly:

- Top View (Left):** Shows the circular contact area with three positions labeled POS 1, POS 2, and POS 3 at a 25° angle. The center has a C&K MARKING ON OPPOSITE SIDE. Dimensions include .024 (0,61) for the mounting hole offset, .138 (3,51) for the body width, .370 (9,40) for the terminal pitch, .030 TYP. (0,76) for the terminal thickness, .185 TYP. (4,70) for the terminal height, .155 TYP. (3,94) for the epoxy seal thickness, and .094 DIA. (2,390) TYP. for the terminal diameter.
- Side View (Right):** Shows the profile of the switch. Dimensions include .275 (6,99) for the total height, .080 TYP. (2,03) for the terminal width, .500 (12,70) for the internal contact length, .937 (23,80) for the internal contact offset, .270 (6,86) for the case width, and 1.156 (29,36) for the total length.

Terminal Nos.
For Reference Only

DPDT

Technical drawing of a DPDT connector showing side and end views with dimensions in inches and millimeters.

Side View Dimensions:

- 25° angle
- P05 3, P05 2, P05 1 labels
- C&K MARKING ON OPPOSITE SIDE
- .060 (1,52)
- .030 TYP. (0,76)
- .185 TYP. (4,70)
- EPOXY SEAL
- .155 TYP. (3,94)
- .024 (0,61)
- .370 (9,40)
- .138 (3,51)

End View Dimensions:

- .275 (6,99)
- .190 (4,83)
- .040 (1,02)
- 6, 3, 5, 4, 2, 1 labels
- .500 (12,70)
- .937 (23,80)
- 1.156 (29,36)
- .080 TYP. (2,03) TERM. WIDTH
- .094 DIA. (2,390) TYP.
- .450 (11,43)

Terminal Nos.
For Reference Only

Part number shown: 7201J1ZQE2

** U11 through U413 model nos. with all options when ordered with G, Q, R or S contact material.

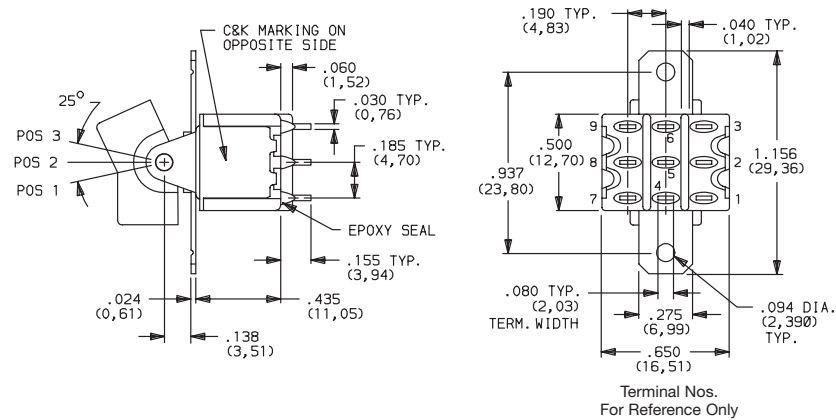
G-4

7000 Series Miniature Rocker & Lever Handle Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	UL** MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
3P	7301	U31	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7	 3PDT
	7303	U33	ON	OFF	ON		OPEN		

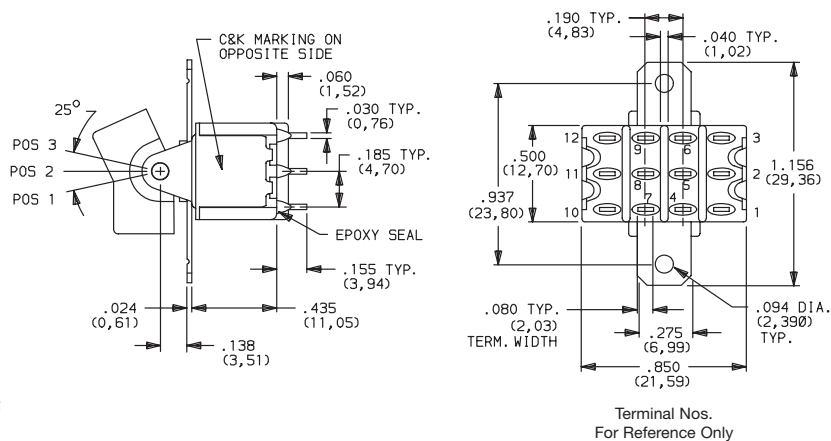
3PDT



Part number shown: 7301J1ZQE2

4P	7401	U41	ON	NONE	ON	2-3,5-6,8-9,11-12	N/A	2-1,5-4,8-7,11-10	 4PDT
	7405	U45	MOM.	OFF	MOM.		OPEN		
	7411*	U411*	ON	ON	ON		2-3,5-4,8-9,11-10		

4PDT



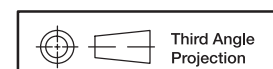
Part number shown: 7401J1ZQE2

MOM. = Momentary

** U11 through U411 model nos. c us with all options when ordered with G, Q, R or S contact material.

* Wiring for 3-way switch: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

C&K



Third Angle
Projection

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

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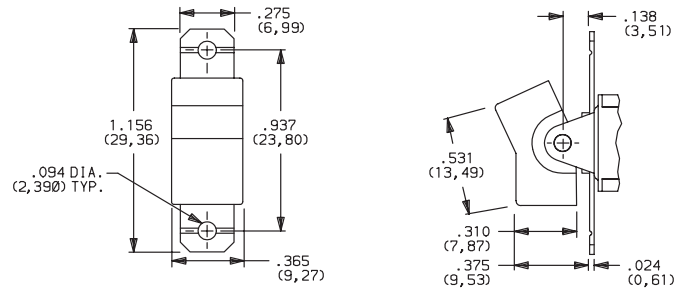


7000 Series Miniature Rocker & Lever Handle Switches

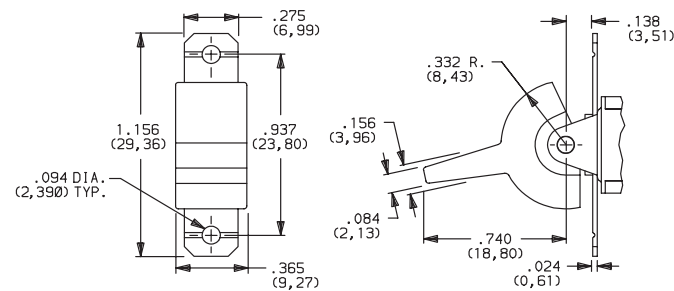
ACTUATOR-PANEL REAR MOUNT

ACTUATOR COLOR
ACTUATOR

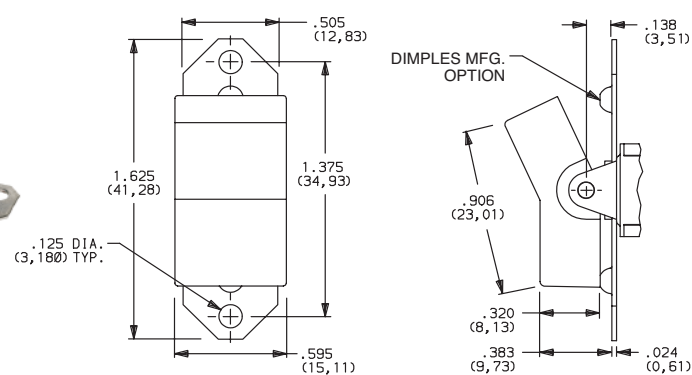
J1 ROCKER



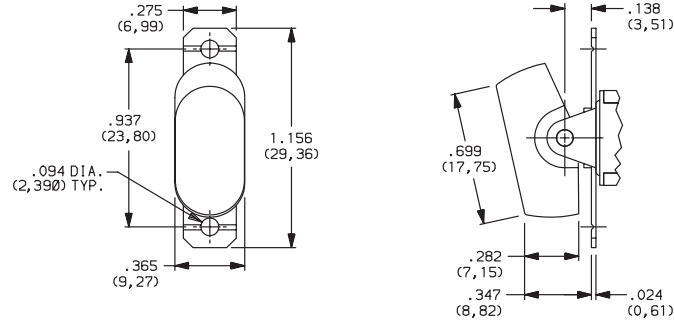
J2 LEVER



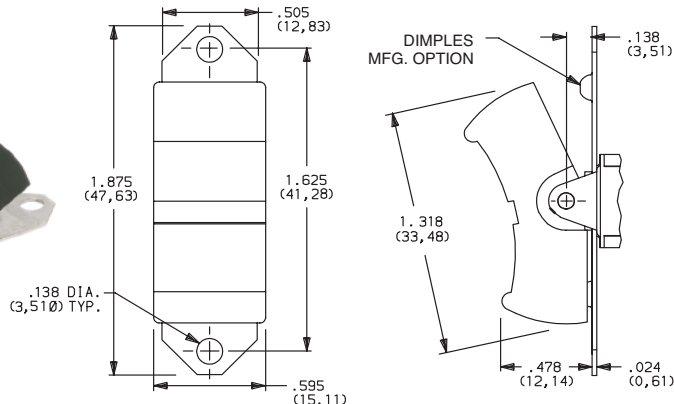
J3 ROCKER



J8 ROCKER



J10 ROCKER



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

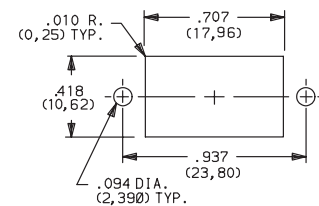
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

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. Actuators available separately, see page G-21 through G-22. Hardware is available see Technical Data section of this catalog.

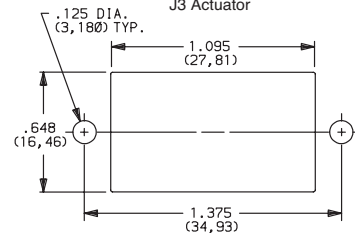
J1, J2, J3, J8 & J10 Actuators available with C, W-W5, Z or Z3 terminations.

PANEL MOUNTING

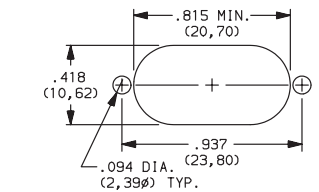
J1 & J2 Actuators



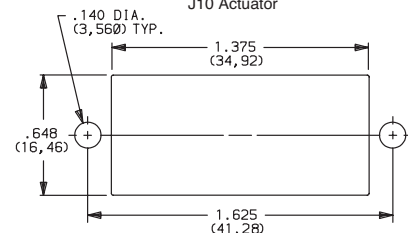
J3 Actuator



J8 Actuator



J10 Actuator



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

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Rocker

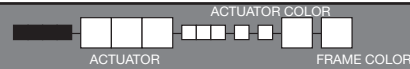


G

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7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-SNAP-IN FRONT MOUNT



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

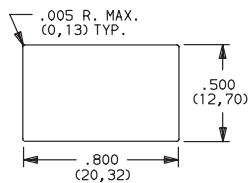
OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J15 or J25 options)
1	WHITE

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

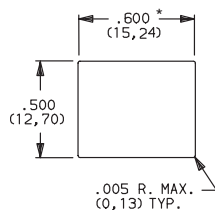
NOTE: Actuators & frames available separately, see pages G-21 through G-22. J15, J16, J25, J26, J50 & J51 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

PANEL MOUNTING

J15, J16, J25 & J26 Actuators

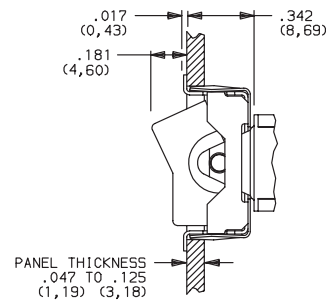
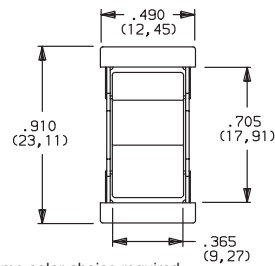


J50 Actuator



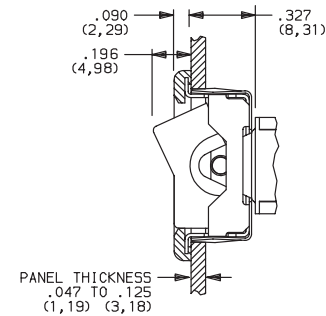
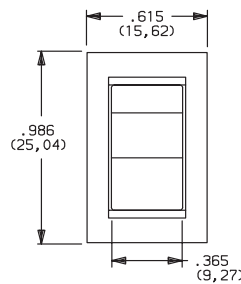
* For J50: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

J15 ROCKER, SNAP-IN

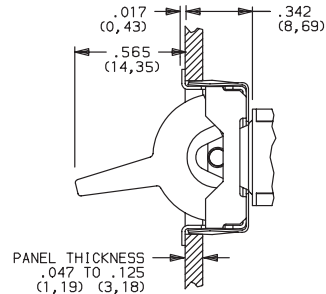
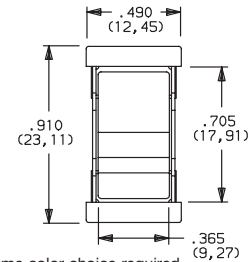


No frame color choice required

J16 ROCKER WITH FRAME, SNAP-IN

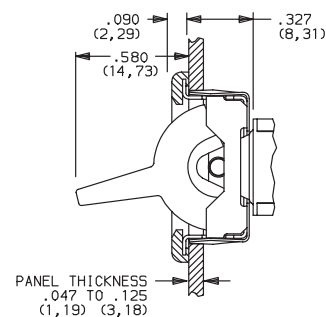
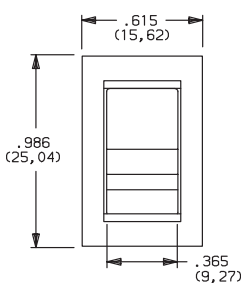


J25 LEVER, SNAP-IN

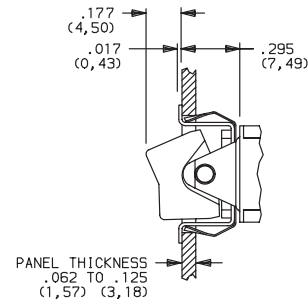
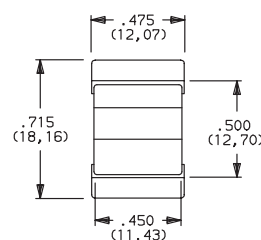


No frame color choice required

J26 LEVER WITH FRAME, SNAP-IN



J50 ROCKER, SNAP-IN



No frame color choice required

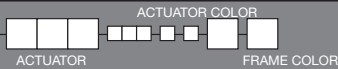


Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

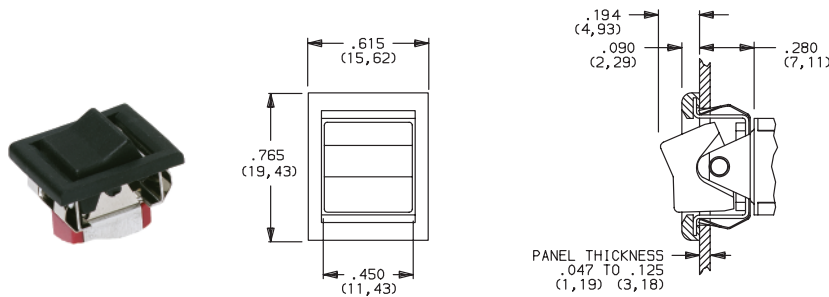
C&K

7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-SNAP-IN FRONT MOUNT

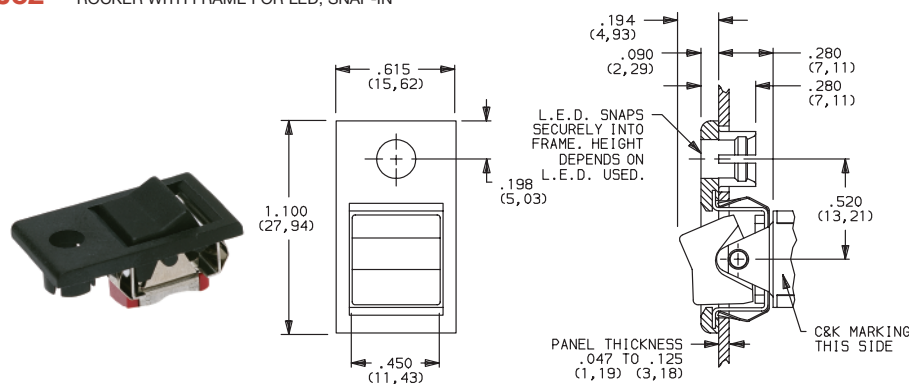


J51 ROCKER WITH FRAME, SNAP-IN



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

J52 ROCKER WITH FRAME FOR LED, SNAP-IN



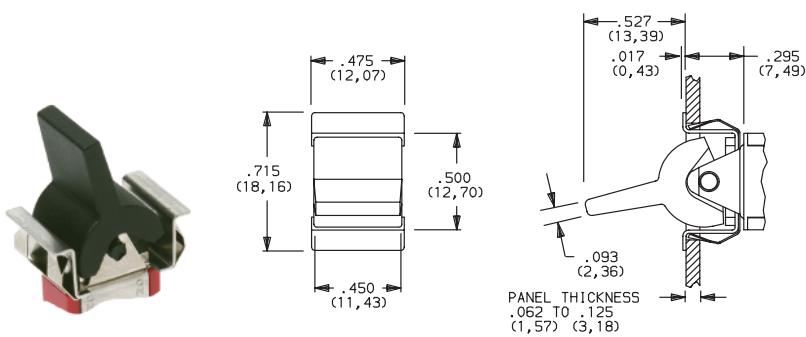
OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J15 or J25 options)
1	WHITE

LED not included.
For LED information, see page G-24.

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

NOTE: Actuators & frames available separately, see pages G-21 through G-22. J51, J52, J60 & J61 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

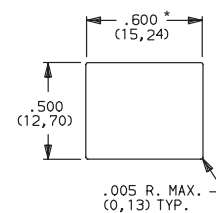
J60 LEVER, SNAP-IN



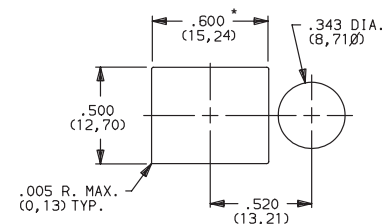
No frame color choice required

PANEL MOUNTING

J51, J60 & J61 Actuators

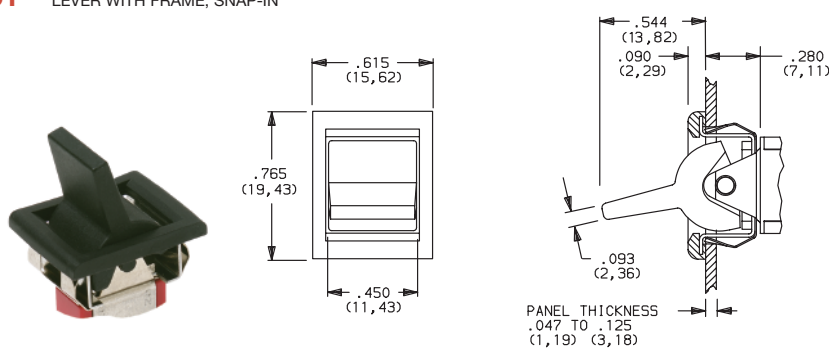


J52 Actuator



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

J61 LEVER WITH FRAME, SNAP-IN



Rocker



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

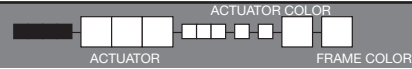
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C&K

7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-SNAP-IN FRONT MOUNT



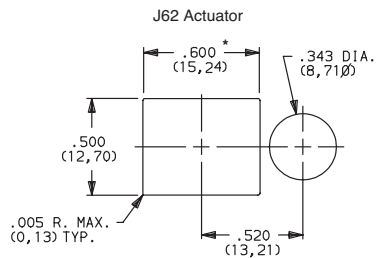
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J90 options)
1	WHITE

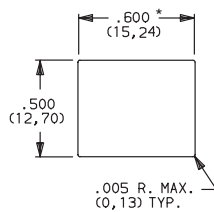
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Actuators & frames available separately, see pages G-21 through G-22. J62, J90 & J91 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z & Z3 terminations.

PANEL MOUNTING



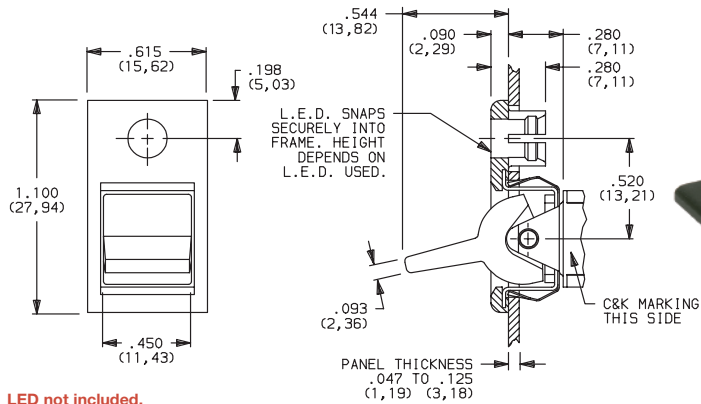
J90, J91 & J93 Actuators



* For J90: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.
For J91: Increase this dimension to .620/.625 (15,75/15,88) for .060/.125 (1,52/3,18) thk. panels.

J62

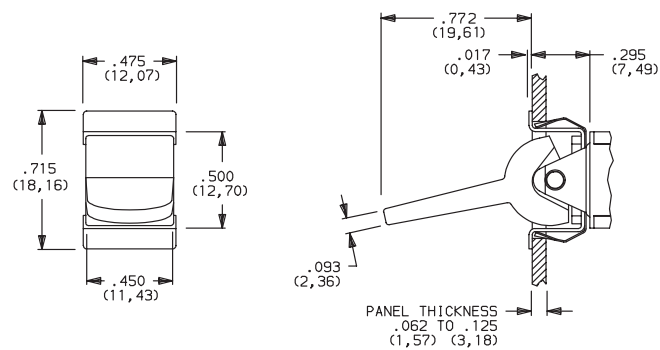
LEVER WITH FRAME FOR LED, SNAP-IN



LED not included.
For LED information, see page H-25.

J90

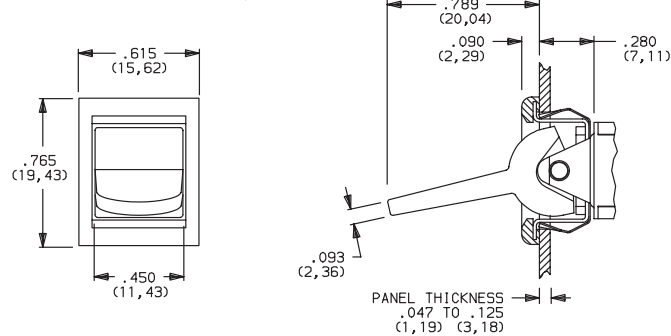
LEVER, SNAP-IN



No frame color choice required.

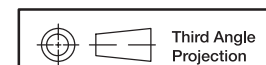
J91

LEVER WITH FRAME, SNAP-IN



Rocker

C&K



Third Angle
Projection

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

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G

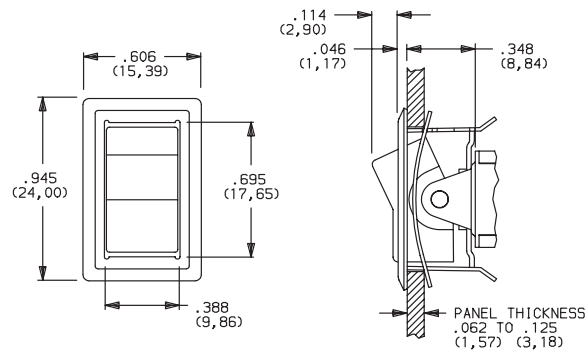
7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-REAR MOUNT

ACTUATOR

FRAME COLOR

J11 ROCKER WITH FRAME



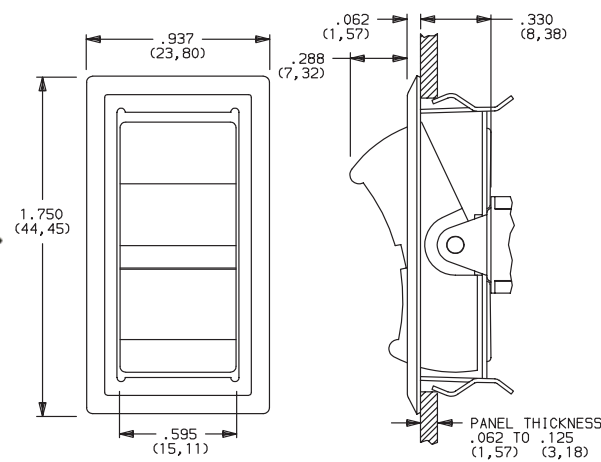
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	BLACK
1	WHITE

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

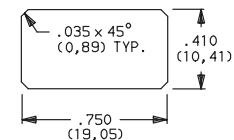
NOTE: Actuators & frames available separately, see pages G-21 through G-22. J11, J19, J21 & J37 Actuators available with C, W-W5, Z & Z3 terminations. J37 offered with Black Frame (2 color option) only.

J19 ROCKER WITH FRAME

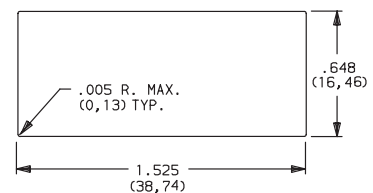


PANEL MOUNTING

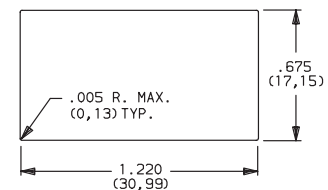
J11 & J21 Actuators



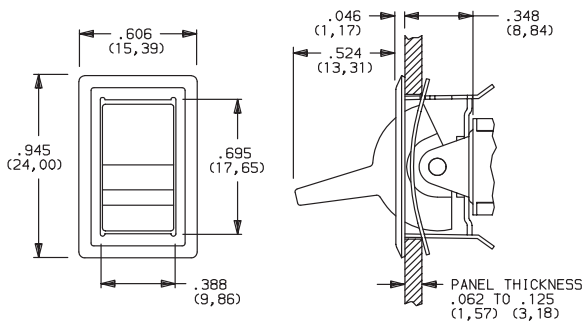
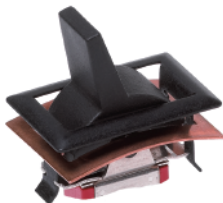
J19 Actuator



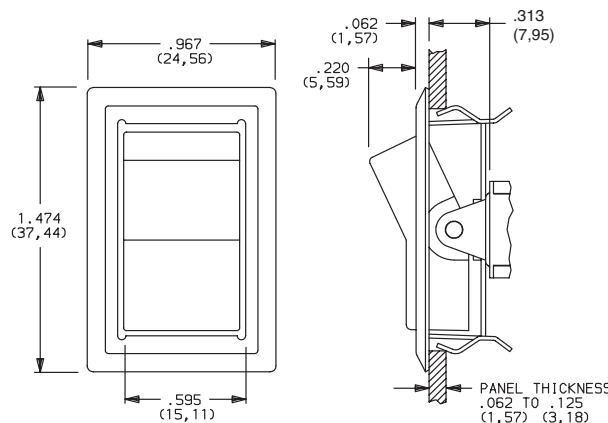
J37 Actuator



J21 LEVER WITH FRAME



J37 ROCKER WITH FRAME



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

www.ck-components.com

Rocker

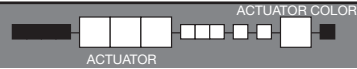


G

C&K

7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-PC MOUNT



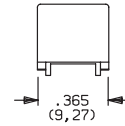
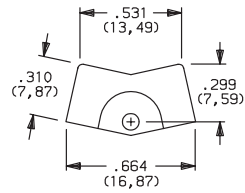
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

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

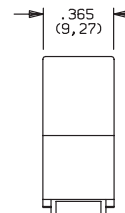
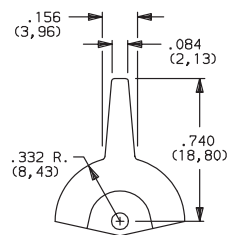
NOTE: Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

Actuators available separately, see page G-21 through G-22. J1, J2 & J8 actuators available with A, A3, AV2, AV3, AW3 & V2 terminations. J3 actuators available with AV2, AV3 & V2-V61 terminations. J50 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW3 (DP, 3P models only) & V2-V61 terminations.

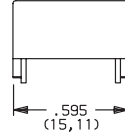
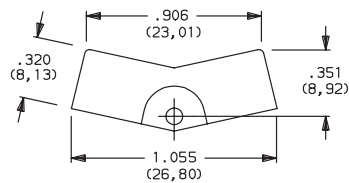
J1 ROCKER



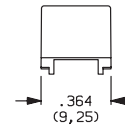
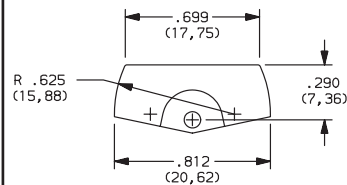
J2 LEVER



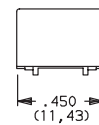
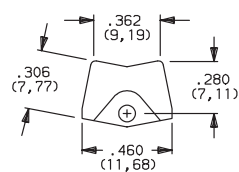
J3 ROCKER



J8 ROCKER



J50 ROCKER



Third Angle
Projection

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

C&K

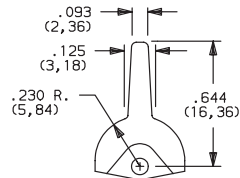
7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-PC MOUNT

ACTUATOR COLOR

ACTUATOR

J60 LEVER

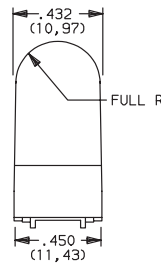
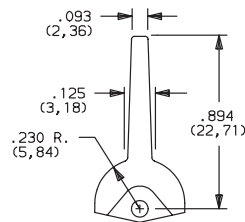


OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

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.

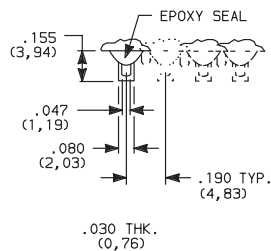
J90 LEVER



Actuators available separately, see page G-21 through G-22. J60 & J90 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW3 (DP, 3P models only) & V2-V61 terminations.

TERMINATIONS

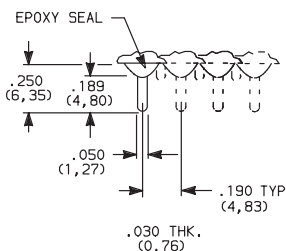
Z SOLDER LUG



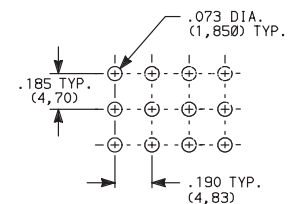
SPDT thru 4PDT

Not available with P, R or S contact materials. Available actuators, see pages G-7 through G-13.

C PC THRU-HOLE



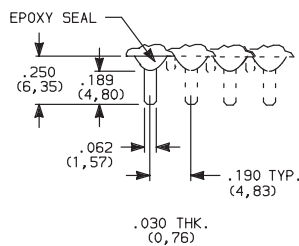
PC MOUNTING



SPDT thru 4PDT

NOTE: Available actuators, see pages G-7 through G-13.

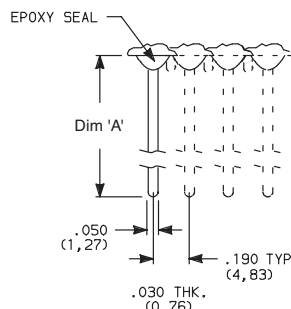
Z3 QUICK CONNECT



SPDT thru 4PDT

Not available with P, R or S contact materials. Available actuators, see pages G-7 through G-13. Mating quick connector available; order part number 530100000, page G-22.

W, W3, W5 WIRE WRAP



OPTION CODE	DIM 'A'
W	.750 (19,05)
W3	.425 (10,80)
W5	1.305 (33,15)

SPDT thru 4PDT

NOTE: Available actuators, see pages G-7 through G-13.



Third Angle Projection

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

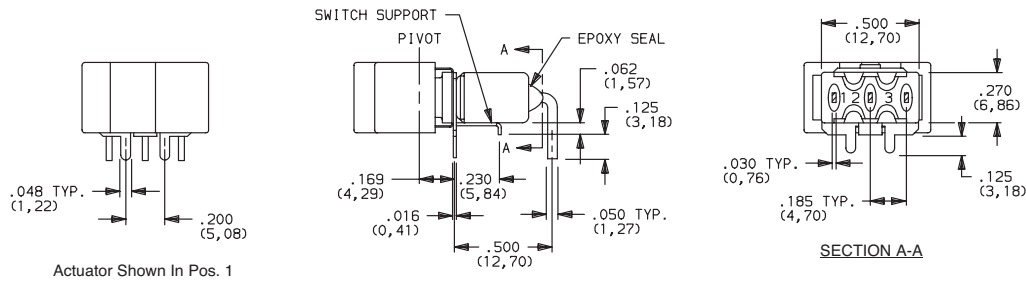
www.ck-components.com



7000 Series Miniature Rocker & Lever Handle Switches

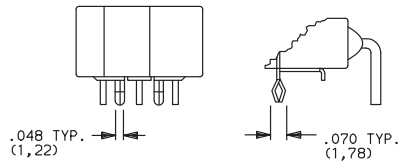
TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE

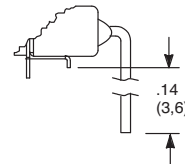


7101J1ABE2
Horizontal Actuation
SPDT

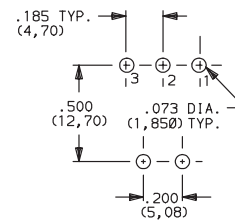
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



AW3 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



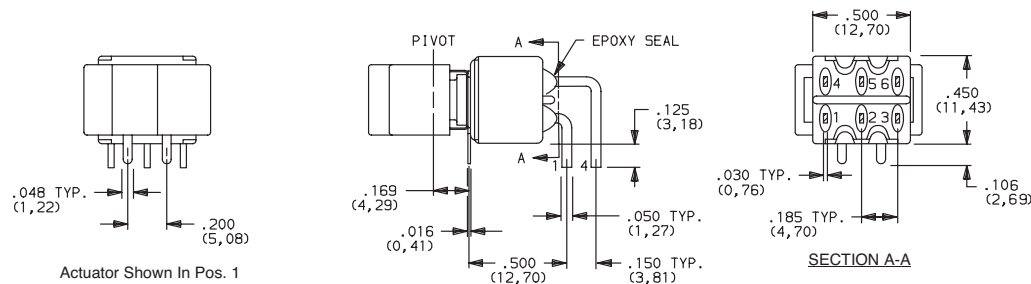
PC MOUNTING



Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

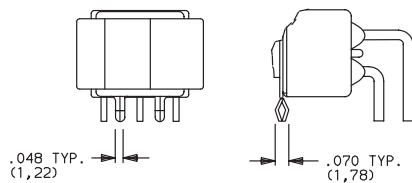
NOTE: PC pattern must clear switch support leg.

A RIGHT ANGLE, PC THRU-HOLE

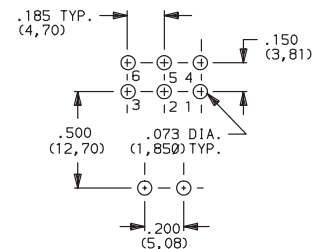


7201J1ABE2
Horizontal Actuation
DPDT

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



PC MOUNTING



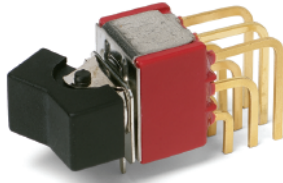
Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

C&K

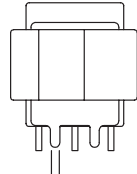
7000 Series Miniature Rocker & Lever Handle Switches

TERMINATIONS

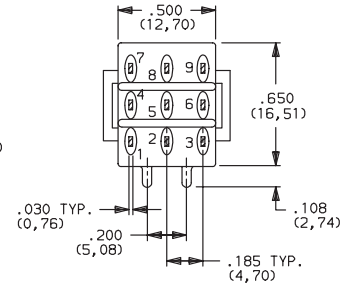
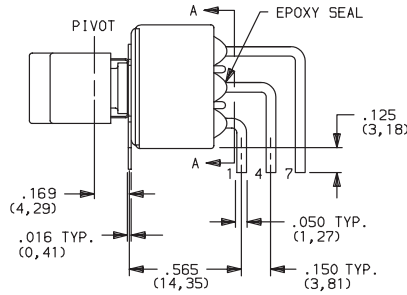
A RIGHT ANGLE, PC THRU-HOLE



7301J1ABE2
Horizontal Actuation
3PDT



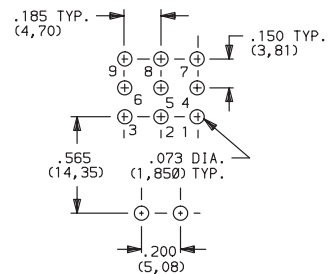
Actuator Shown In Pos. 1



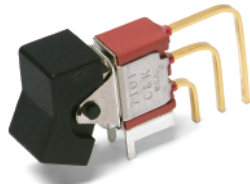
SECTION A-A

Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

PC MOUNTING



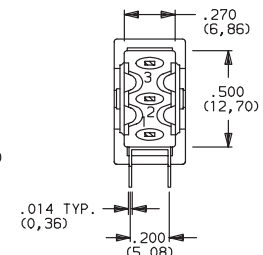
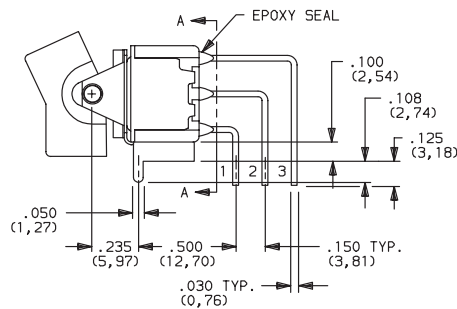
AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



7101J1AV2BE2
Vertical Actuation
SPDT

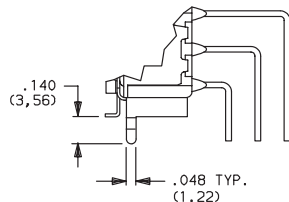
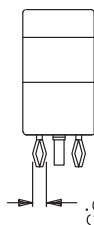


Actuator Shown In Pos. 1

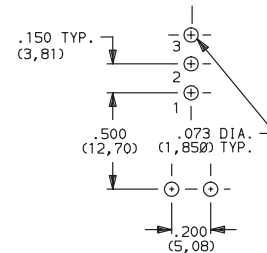


SECTION A-A

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



PC MOUNTING



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

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Rocker



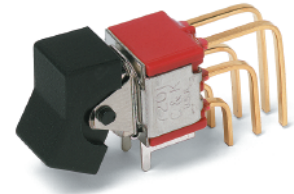
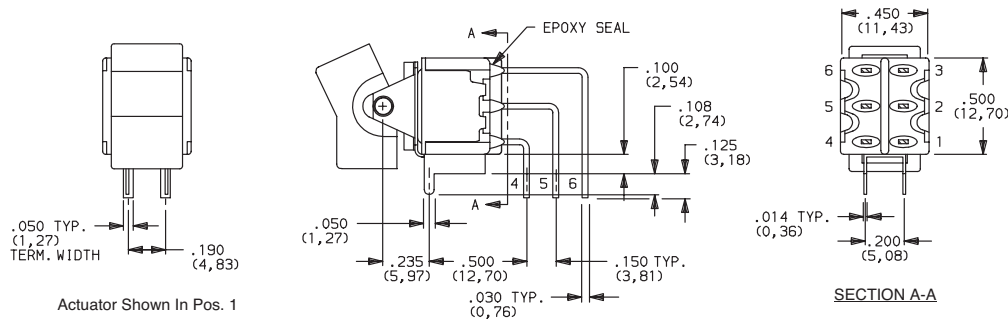
G

C&K

7000 Series Miniature Rocker & Lever Handle Switches

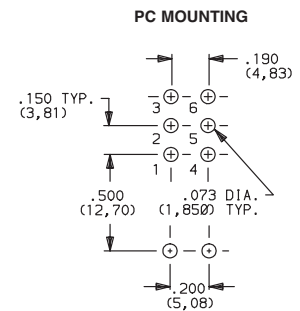
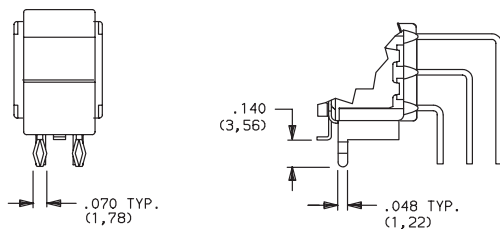
TERMINATIONS

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



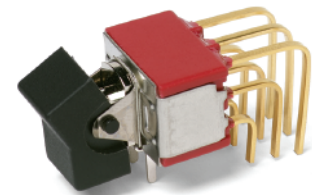
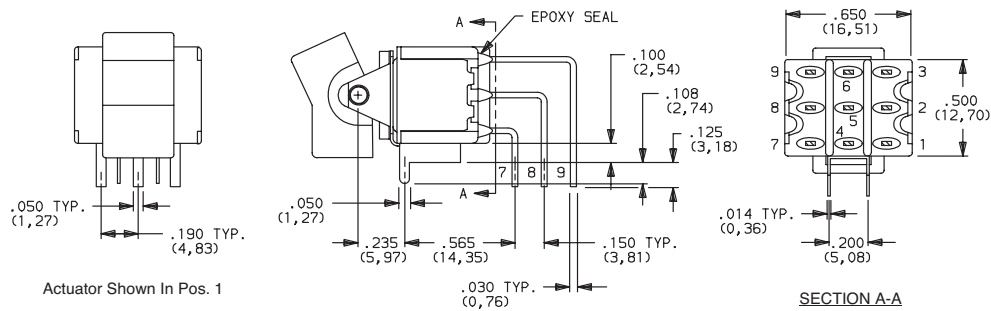
7201J1AV2BE2
Vertical Actuation
DPDT

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



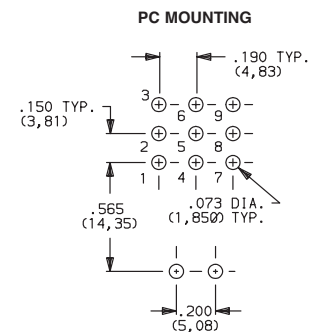
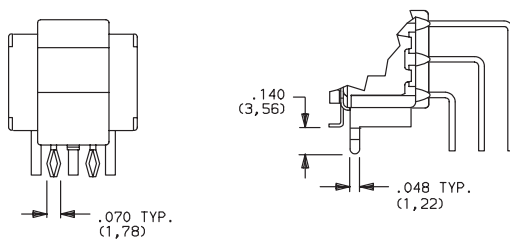
Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

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



7301J1AV2BE2
Vertical Actuation
3PDT

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



Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

C&K



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

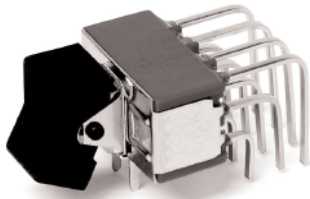
www.ck-components.com



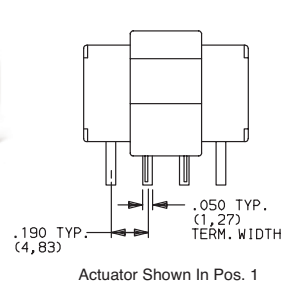
7000 Series Miniature Rocker & Lever Handle Switches

TERMINATIONS

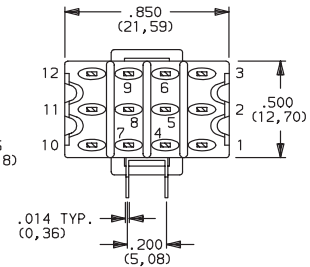
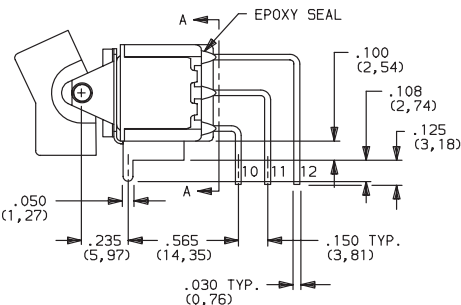
AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE,
.150" PITCH



7401J1AV2BE2
Vertical Actuation
4PDT

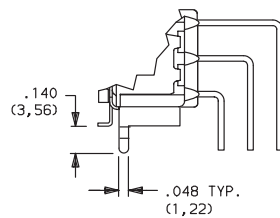
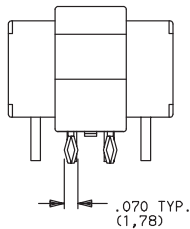


Actuator Shown In Pos. 1

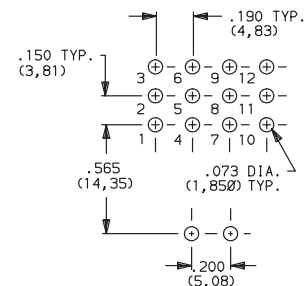


SECTION A-A

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

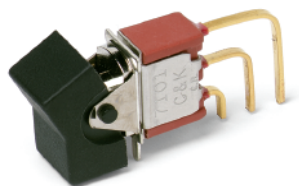


PC MOUNTING

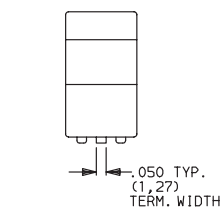


Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

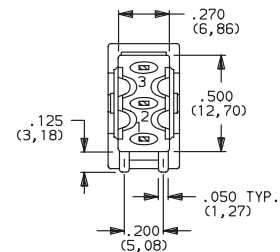
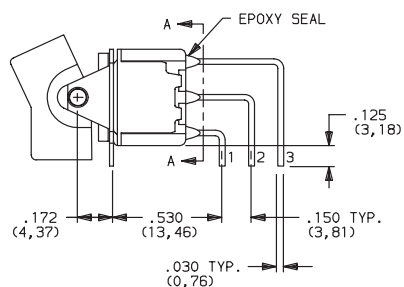
V5 VERTICAL RIGHT ANGLE, PC THRU-HOLE,
.150" PITCH



7101J1V5BE2
Vertical Actuation
SPDT

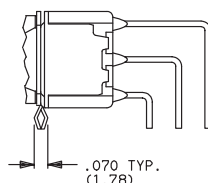
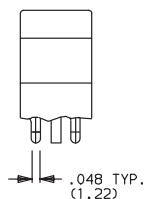


Actuator Shown In Pos. 1

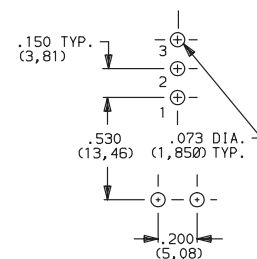


SECTION A-A

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



PC MOUNTING



Rocker

Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

Third Angle Projection

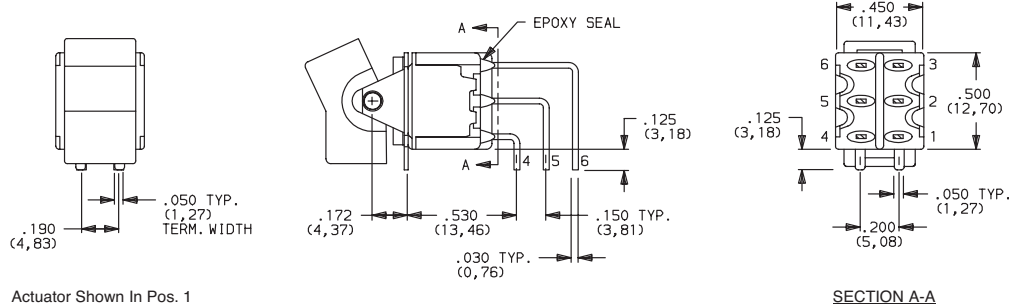
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

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7000 Series Miniature Rocker & Lever Handle Switches

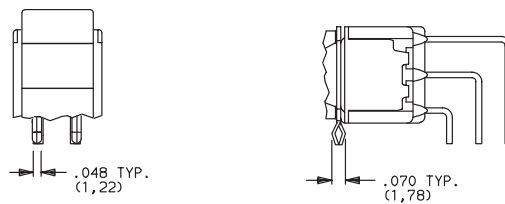
TERMINATIONS

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

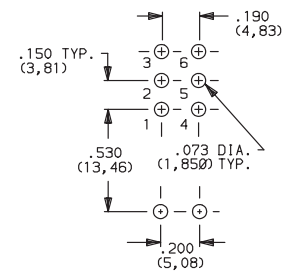


7201J1V5BE2
Vertical Actuation
DPDT

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



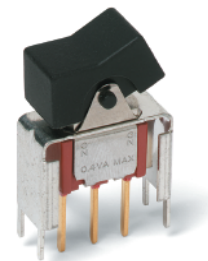
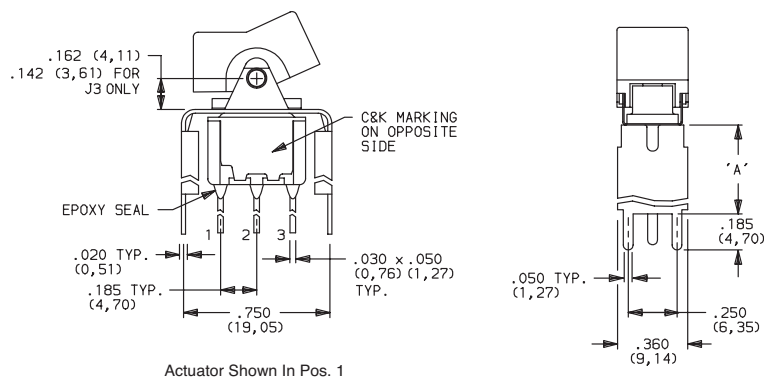
PC MOUNTING



Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

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

V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN



7101J1_BE2
SPDT

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

Not available with I seal option.
Available actuators, see pages G-6 and G-12.

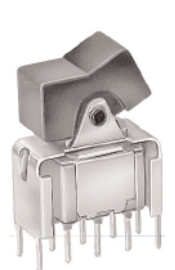
C&K

7000 Series Miniature Rocker & Lever Handle Switches

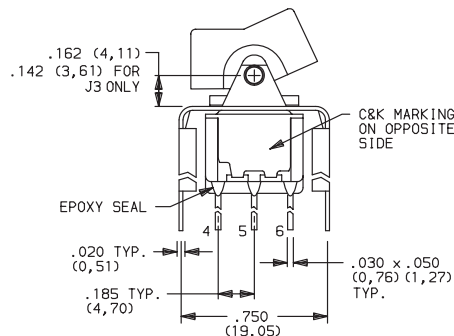
TERMINATIONS

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

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

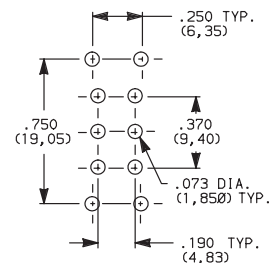


7201J1_BE2
DPDT



Actuator Shown In Pos. 1

PC MOUNTING



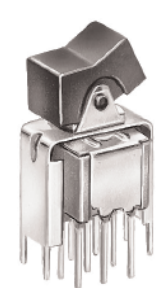
OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V6, V61	.460 (11,68)
V7	.630 (16,00)
V8	.953 (24,21)

Not available with I seal option.

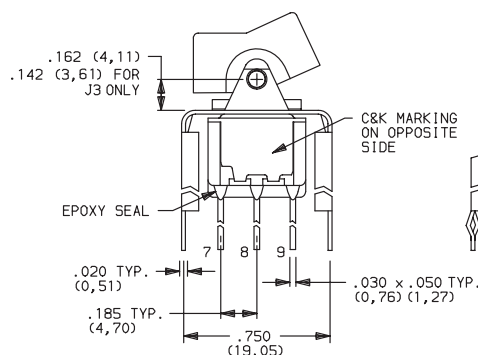
Available actuators, see pages G-6 and G-12.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET

V21 VERTICAL MOUNT, V-BRACKET, SNAP-IN

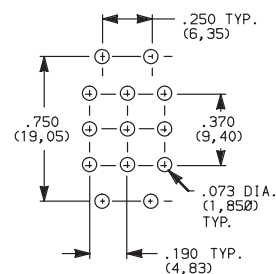


7301J1_BE2
3PDT



Actuator Shown In Pos. 1

PC MOUNTING



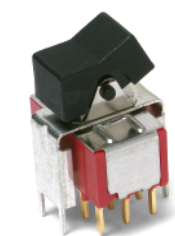
OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V7	.630 (16,00)
V8	.953 (24,21)

Not available with I seal option.

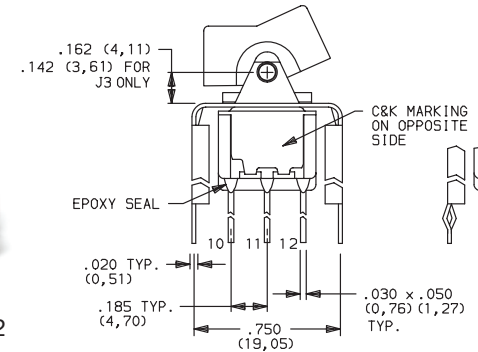
Available actuators, see pages G-6 and G-12.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET

V21 VERTICAL MOUNT, V-BRACKET, SNAP-IN

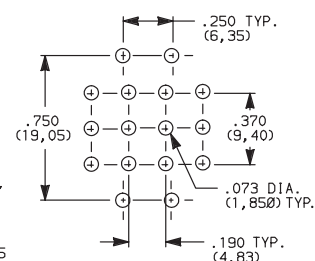


7401J1_BE2
4PDT



Actuator Shown In Pos. 1

PC MOUNTING



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

Not available with I seal option.

Available actuators, see pages G-6 and G-12.

Rocker



G

C&K



Third Angle Projection

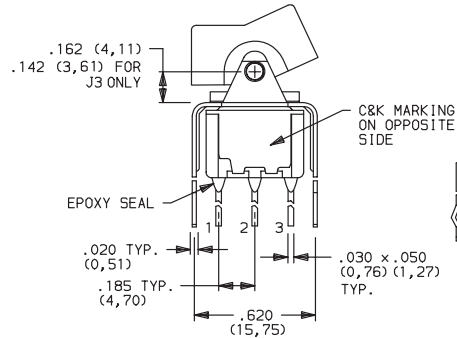
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

7000 Series Miniature Rocker & Lever Handle Switches

TERMINATIONS

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

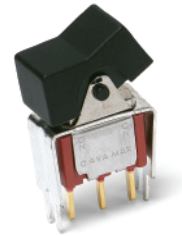
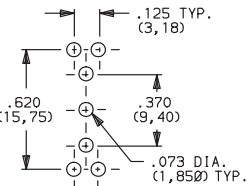
V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1

Not available with I seal option.
Available actuators, see pages G-6 and G-12.

PC MOUNTING

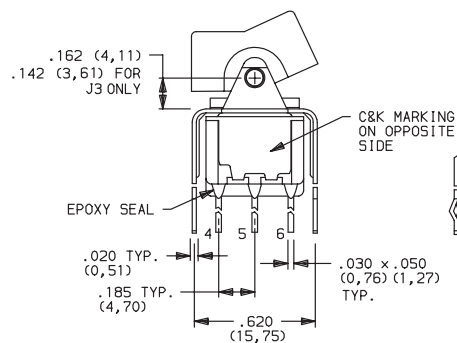


7101J1_BE2
SPDT

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

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

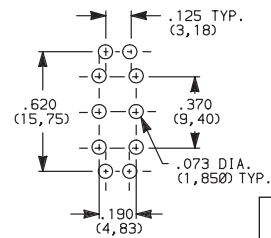
V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1

Not available with I seal option.
Available actuators, see pages G-6 and G-12.

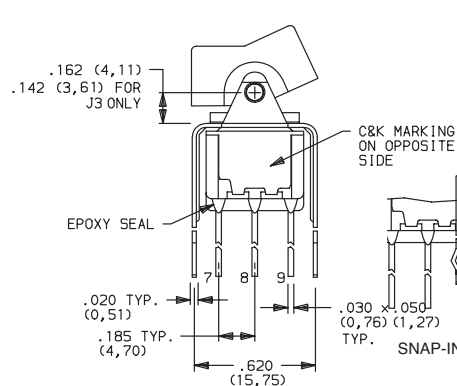
PC MOUNTING



7201J1_BE2
DPDT

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

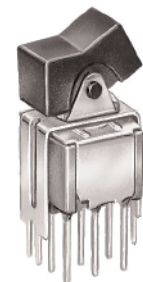
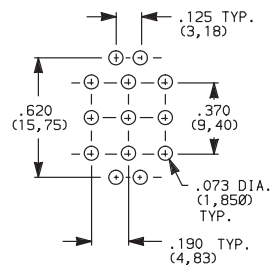
V4, V9 VERTICAL MOUNT, V-BRACKET



Actuator Shown In Pos. 1

Not available with I seal option.
Available actuators, see pages G-6 and G-12.

PC MOUNTING



7301J1_BE2
3PDT

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



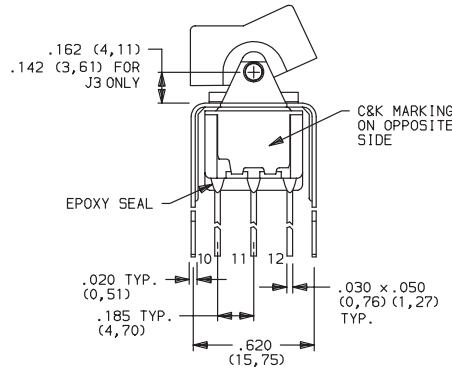
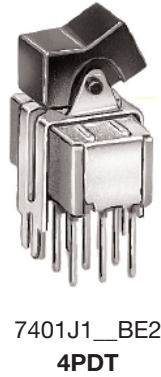
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

C&K

7000 Series Miniature Rocker & Lever Handle Switches

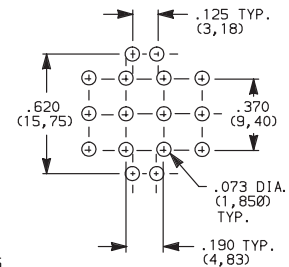
TERMINATIONS

V4, V9 VERTICAL MOUNT, V-BRACKET



Actuator Shown In Pos. 1

PC MOUNTING



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

Not available with I seal option.
Available actuators, see pages G-6 and G-12.

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B	GOLD ¹	GOLD ¹	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
P		MATTE-TIN ⁶		
Q	SILVER ^{4,5}	SILVER ⁵	POWER	5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.
S		MATTE-TIN 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.
R		MATTE-TIN ⁶		

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

- 1 CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- 2 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 matte-tin over nickel plate.

U11-U415 model numbers  with all options when ordered with G, Q, S & R contact material.

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

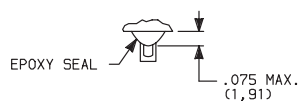
Q contact material standard with C, Z & Z3 terminations.

P, S & R, contact materials not available with Z & Z3 terminations.

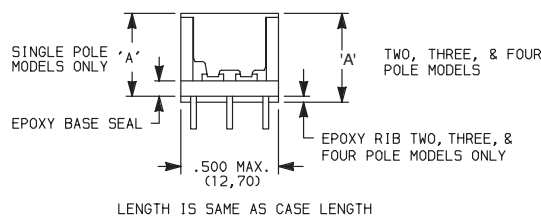
NOTE: Any models supplied with Q, B, G S, P & R contact material are RoHS compliant.

SEAL

E EPOXY SEAL



I EPOXY POTTED BASE



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

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



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

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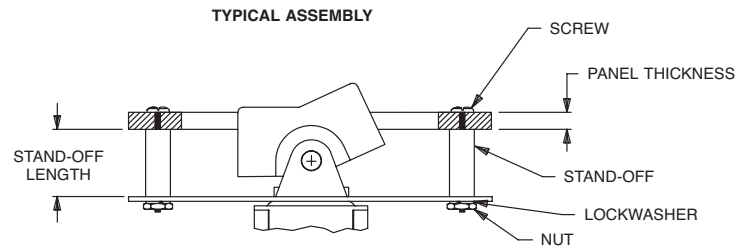


7000 Series Miniature Rocker & Lever Handle Switches

AVAILABLE HARDWARE

Panel mounting hardware for rocker and lever handle switches is available separately. Mounting hardware consists of two screws, two nuts, two standoffs and two lockwashers per switch, and is available for panel thicknesses of 1/16, 3/32 and 1/8 inch. See part numbers below.

Qty	Part Number	Description
2	761103000	Standoffs
2	764100000	Mounting screws
2	764200000	Lock washers
2	764300000	Hex nuts



J1 & J2 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
761103000	1/8 IN. (3,18)	.233 (5,92)

J3 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
770603000	1/8 IN. (3,18)	.233 (5,92)

J10 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
770703000	1/8 IN. (3,18)	.233 (5,92)

MATERIAL

Screws, nuts, lockwashers: Stainless steel. Standoffs: Nylon, standard.

J1, J11, J15 & J16 Actuators



PART NO.
776A01000 WHITE
776A02263 BLACK
776A03000 RED

Material: Nylon
Finish: Matte

J2, J21, J25 & J26 Actuators



PART NO.
426D01000 WHITE
426D02263 BLACK
426D03000 RED

Material: Nylon
Finish: Matte

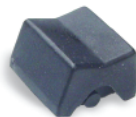
J3 & J37 Actuators



PART NO.
431D01000 WHITE
431D02263 BLACK
431D03000 RED

Material: Nylon
Finish: Matte

J50, J51 & J52 Actuators



PART NO.
775A01000 WHITE
775A02263 BLACK
775A03000 RED

Material: Nylon
Finish: Matte

J60, J61 & J62 Actuators



PART NO.
598101000 WHITE
613802263 BLACK
598103000 RED

Material: Nylon
Finish: Matte

J8 Actuator



PART NO.
488701000 WHITE
488702263 BLACK
488703000 RED

Material: Nylon
Finish: Matte



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



7000 Series Miniature Rocker & Lever Handle Switches

AVAILABLE HARDWARE

J90 & J91 Actuators



PART NO.

598001000 WHITE
598002263 BLACK
598003000 RED

Material: Nylon
Finish: Matte

J10 & J19 Actuators



PART NO.

769501000 WHITE
769502263 BLACK
769503000 RED

Material: Nylon
Finish: Matte

Fits Z3 Termination
female connector



PART NO.

530100000

Available in loose pieces.

Frame for J11 & J21 Actuators

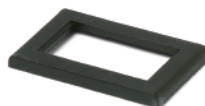


PART NO.

764500746 BLACK ENAMEL
764500747 WHITE ENAMEL
764601106 RETAINING SPRING

Material: Spring Steel

Frame for J16 & J26 Actuators



PART NO.

459101000 WHITE
459102000 BLACK
459103000 RED

Material: Nylon
Finish: Matte

Frame for J51, J61 & J91 Actuators



PART NO.

615601000 WHITE
615602263 BLACK
615603000 RED

Material: Nylon
Finish: Matte

Frame for J19 Actuator



PART NO.

781000746 BLACK ENAMEL
781000747 WHITE ENAMEL

Material: Spring Steel

Frame for J37 Actuator



PART NO.

445400746 BLACK ENAMEL

Material: Spring Steel

Frame for J52 & J62 Actuators



PART NO.

613301000 WHITE
613302263 BLACK
613303000 RED

Material: Nylon
Finish: Matte



Third Angle
Projection

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

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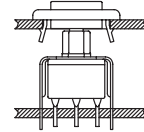


7000 Series Miniature Rocker & Lever Handle Switches

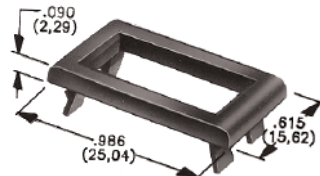
AVAILABLE HARDWARE

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

TYPICAL APPLICATION

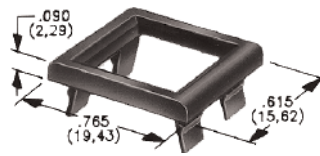


J1 & J2 Actuators



.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO. 452902263	PART NO. 452702263	PART NO. 452802263	PART NO. 452602263 BLACK

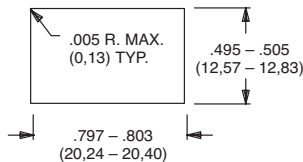
J50, J60 & J90 Actuators



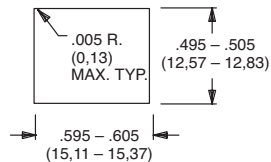
.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO. 432502263	PART NO. 432602263	PART NO. 432702263	PART NO. 432802263 BLACK

PANEL MOUNTING

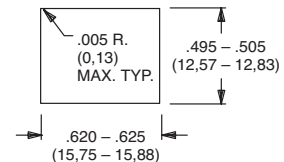
For part numbers
4529xxxxx, 4527xxxxx,
4528xxxxx, 4526xxxxx



For part numbers
4325xxxxx, 4326xxxxx



For part numbers
4327xxxxx, 4328xxxxx



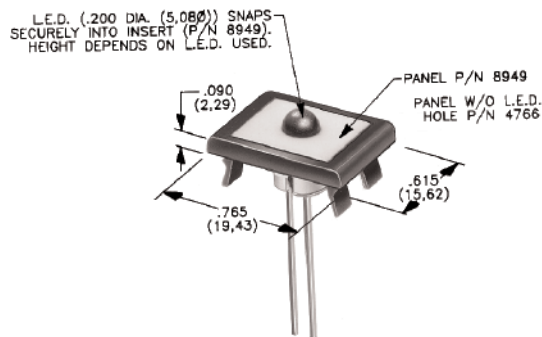
7000 Series Miniature Rocker & Lever Handle Switches

AVAILABLE HARDWARE

Panel Inserts

Will fit Separate Snap-in frames for J50, J60 & J90 actuators

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



PANEL INSERT WITH HOLE FOR LED

PART NO.
894902000

BLANK PANEL INSERT WITHOUT HOLE FOR LED

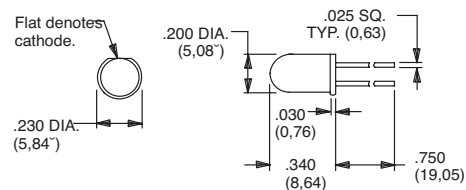
PART NO.
476602000 BLACK

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

LED INFORMATION

Process Information: Soldering to LED leads must be completed within 5 seconds at 500° F (260°C) maximum.

LEDs are not supplied with J52, J62 options. LED snaps into switch frame surrounding actuator and is wired externally.



Suggested LED for J52 & J62 options.
Dimensions for reference only.

Rocker



Third Angle
Projection

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

Mouser Electronics

Authorized Distributor

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C&K Components:

[7215J1V3QE2](#) [7201J1V4QE2](#) [7303J3V2QE2](#) [7207J1V4GE2](#) [7205J19QE22](#) [7201J1CBE2](#) [7205J1CBE2](#)
[7215J2W3QE22](#) [7107J37ZQE22](#) [7401J21ZBE22](#) [7201J1ZQE3](#) [7105J19Z3QE22](#) [7105J4ZQE2](#) [7105J61ZGE22](#)
[7105J1CBE2](#) [7108J1V3QE3](#) [7101J61ZQE32](#) [7107J50V3BE2](#) [7107J1V3BE2](#) [7107J1ZQE2](#) [U11J2V3QE2](#)
[U18J2V3QE2](#) [U18J2V3QE1](#) [U18J2V3QE3](#) [7101J1V6QE2](#) [7101J1V3QE3](#) [7101J1ABE2](#) [7101J1V6KE2](#)
[7101J1V61BE2](#) [7101J1CBE2](#) [7101J1ZQE1](#) [7103J1ZQE2](#) [7103J51ZQE22](#) [7101J60AV2BE2](#) [U31J11ZQE22](#)
[7411J2CGE2](#) [7208J1ZQE2](#) [7208J19ZQE22](#) [7201J11ZQE22](#) [7301J1ZQE1](#) [7201J61ZQE12](#) [7201J21W3QE22](#)
[7201J51ZGE22](#) [7201J16ZBE22](#) [7201J61ZQE22](#) [7207J61ZQE22](#) [7207J1ZQE2](#) [7203J1V3QE2](#) [7203J1V6QE2](#)
[7203J1CBE2](#) [7413J21ZQI22](#) [U21J11ZQE22](#) [7101J10ZQE2](#) [7101J11CBE22](#) [7101J11CBI22](#) [7101J11CKE22](#)
[7101J11CKE32](#) [7101J11CME22](#) [7101J11Z3QI22](#) [7101J11ZBE22](#) [7101J11ZGE32](#) [7101J11ZGI22](#) [7101J11ZQE22](#)
[7101J11ZQE32](#) [7101J16CQE22](#) [7101J16ZQE32](#) [7101J19CQE12](#) [7101J19CQE32](#) [7101J1AKE2](#) [7101J1AQE1](#)
[7101J1AQE3](#) [7101J1AV2BE2](#) [7101J1AV3QE2](#) [7101J1AW3KE2](#) [7101J1CKE2](#) [7101J1CQE3](#) [7101J1V2KE2](#)
[7101J1V31KE2](#) [7101J1V3GE2](#) [7101J1V3KE2](#) [7101J1V3PE2](#) [7101J1V4BE2](#) [7101J1V4QE2](#) [7101J1V5ME2](#)
[7101J1V6BE1](#) [7101J1V6BE2](#) [7101J1V6BE3](#) [7101J1V7BE2](#) [7101J1V7GE2](#) [7101J1V7QE2](#) [7101J1V9QE2](#)
[7101J1ZBE2](#) [7101J1ZGE2](#) [7101J21Z3BE12](#) [7101J26Z3BE22](#) [7101J26ZGE22](#) [7101J2AV2BE7](#) [7101J2CME2](#)
[7101J2V3BE2](#) [7101J2V3KE1](#)