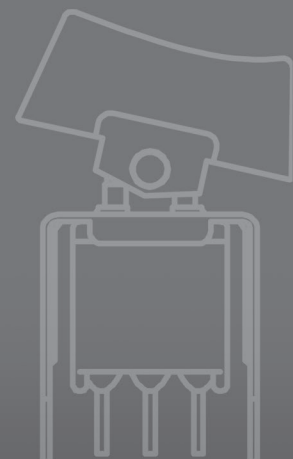









audio
automotive
aerospace
communication devices
consumer appliances
consumer electronics
datacom
data storage
handheld devices
industrial
industrial equipment
instrumentation
medical
military
mobile phones
portable tools
pumps & motors
security alarms
telecom
test equipment
thermostatic controls










rocker

Rockers

Product Selection Guide



Rocker							
Series	7000	E	ET	T	9000	DA	D
Switch Type	Miniature	Miniature	Subminiature	Subminiature	Power Rocker & Lever Handle	Miniature Power	Miniature Power
Poles/Throws	SPDT, DPDT, 3PDT, 4PDT	SPDT, DPDT, 3PDT	SPST, SPDT, DPDT	SPST, SPDT, DPDT	DPDT	SPST, SPDT	SPST, SPDT, DPST, DPDT
Max. Current	5 Amps	7.5 Amps	3 Amps	3 Amps	10 Amps	16 Amps 10 Amps	4 Amps 10 Amps
Washable		•	•				
Illuminated						•	
Panel Mount Options							
Front Mount	•	•		•	•	Snap-in	Snap-in
Rear Mount	•	•		•	•		
PCB Mount Options							
Vertical	•	•	•	•	•	•	•
Right Angle	•	•	•	•	•	•	•
Surface Mount			•				
Page No.	G-4	G-26	G-40	G-46	G-52	G-57	G-61

Rocker							
Series	DM	DM	DF	CR	SW	CG	CL
Switch Type	Miniature 2 Pole Power	Miniature Illuminated Power	Power	Round	Miniature Power	Power	Power
Poles/Throws	DPST, DPDT	SPST, DPST	SPST, SPDT, DPST	SPST, SPDT	SPST, SPDT, DPST	SPST, SPDT	SPST, SPDT
Max. Current	3 Amps, 10 Amps	3 Amps, 10 Amps	16 Amps	10 Amps, 6 Amps	3 A, 6 A, 6.5 A, 10 A, 16 A	10 Amps 16 Amps	10 Amps 16 Amps
Washable							
Illuminated		•		•	•	•	•
Panel Mount Options							
Front Mount	Snap-in	Snap-in	Snap-in	Snap-in	Snap-in	Snap-in	Snap-in
Rear Mount			•				
PCB Mount Options							
Vertical							
Right Angle			•				
Surface Mount							
Page No.	G-66	G-70	G-74	G-78	G-82	G-83	G-87



Rockers

Product Selection Guide

Rocker		
Series	CM	CN
Switch Type	Power	Power
Poles/Throws	SPDT, DPDT	DPST, DPDT
Max. Current	10 Amps 16 Amps	10 Amps 16 Amps
Washable		
Illuminated	•	•
Panel Mount Options		
Front Mount	Snap-in	Snap-in
Rear Mount		
PCB Mount Options		
Vertical		
Right Angle		
Surface Mount		
Page No.	G-91	G-95

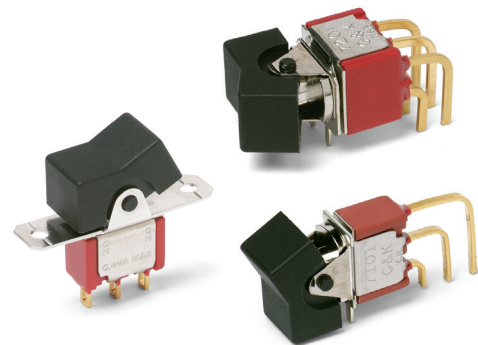
7000 Series Miniature Rocker & Lever Handle Switches

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.

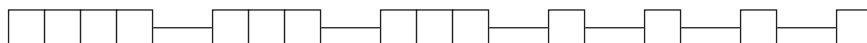
CENTER CONTACTS & ALL TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-20 for additional contact materials.

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

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

Actuator

- J1 .531" long rocker
- J2 Lever
- J3 .906" 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

Rocker

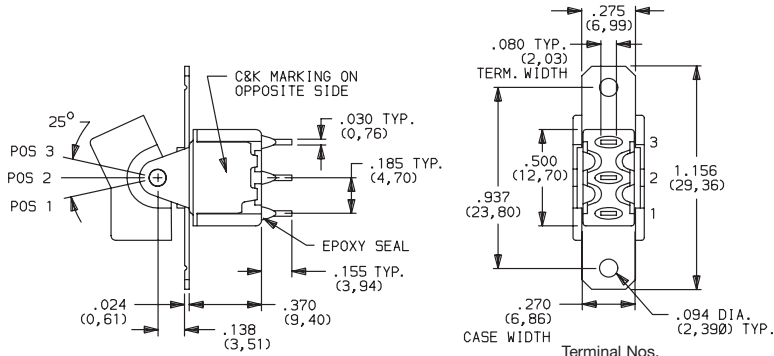


7000 Series Miniature Rocker & Lever Handle Switches

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	
SP	7101	U11	ON	NONE	ON	2-3	N/A	2-1	
	7103	U13	ON	OFF	ON		OPEN		
	7105	U15	MOM.	OFF	MOM.				
	7107	U17	ON	OFF	MOM.	N/A			
	7108	U18	ON	NONE	MOM.				
	7109	U19	NONE	ON	MOM.	N/A	2-3	2-1	

SPDT

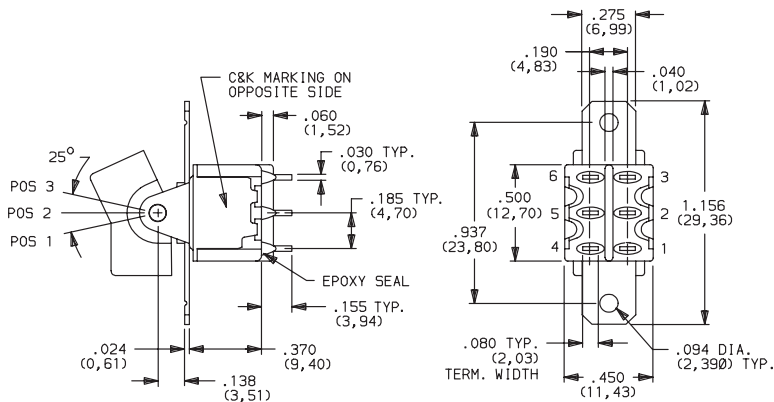


Part number shown: 7101J1ZQE2

Terminal Nos.
For Reference Only

DP	7201	U21	ON	NONE	ON	2-3-5-6	N/A	2-1,5-4	
	7203	U23	ON	OFF	ON		OPEN		
	7205	U25	MOM.	OFF	MOM.				
	7207	U27	ON	OFF	MOM.	N/A			
	7208	U28	ON	NONE	MOM.				
	7211*	U211*	ON	ON	ON	2-3,5-4			
	7213*	U213*	ON	ON	MOM.				
7215*	U215*	MOM.	ON	MOM.			DPDT		

DPDT



Part number shown: 7201J1ZQE2

Terminal Nos.
For Reference Only

MOM. = Momentary

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

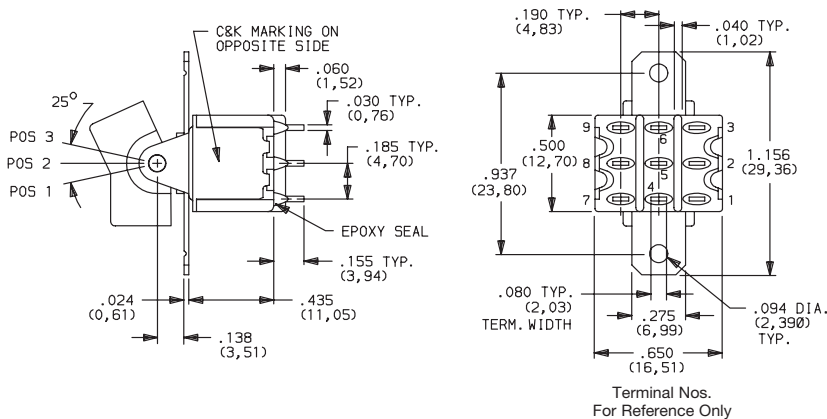
* [Wiring for 3-way switch](#)

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	2-3,5-6,8-9	OPEN	2-1,5-4,8-7	

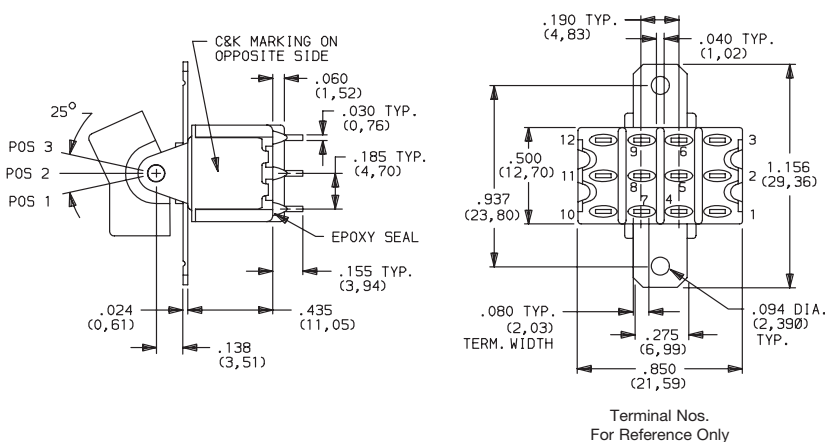
3PDT



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. 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.



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



15 Jan 21

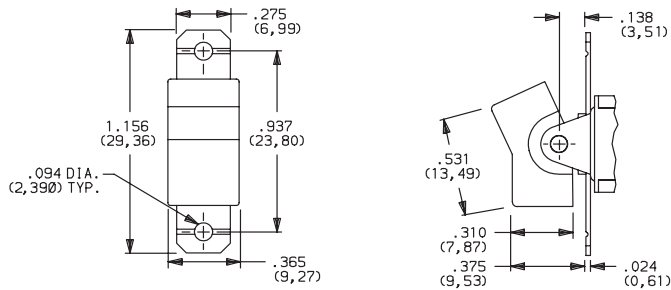
7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-PANEL REAR MOUNT

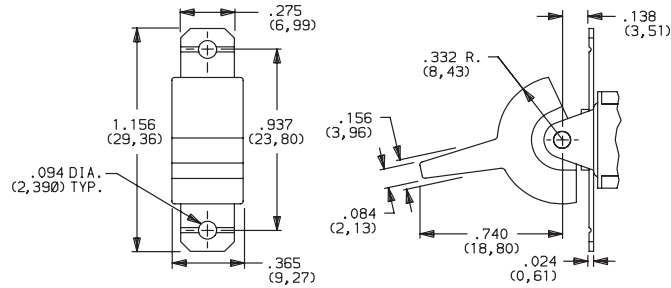
ACTUATOR COLOR

ACTUATOR

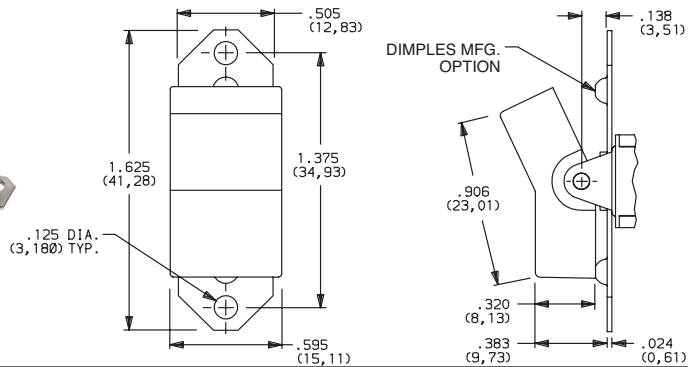
J1 ROCKER



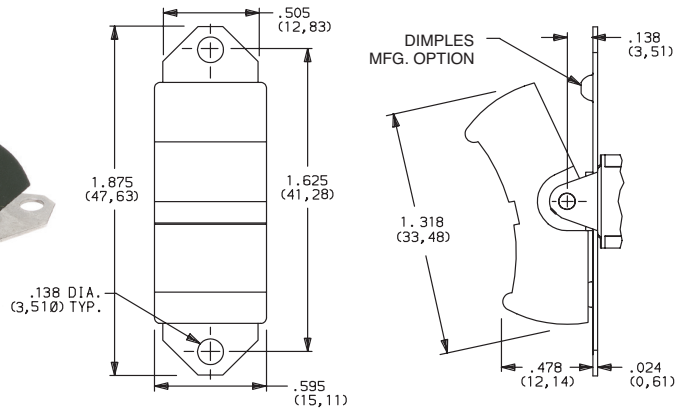
J2 LEVER



J3 ROCKER



J10 ROCKER



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

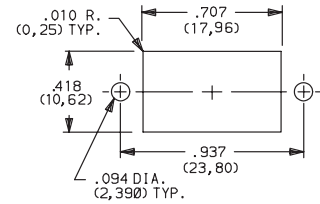
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

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.

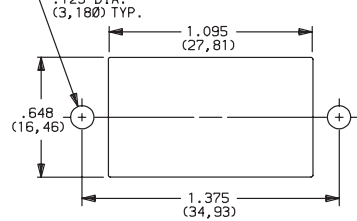
J1, J2, J3 & J10 Actuators available with C, W-W5, Z or Z3 terminations.

PANEL MOUNTING

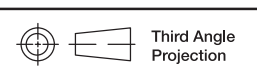
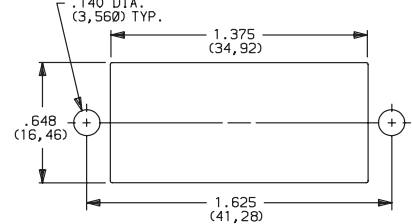
J1 & J2 Actuators



J3 Actuator



J10 Actuator

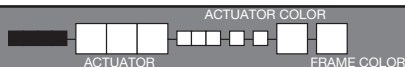


Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-SNAP-IN FRONT MOUNT



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

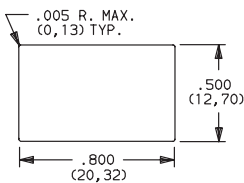
OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J15 or J25 options)
1	WHITE

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

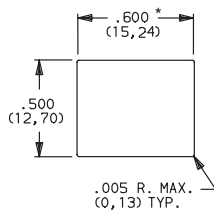
NOTE: Actuators & frames available separately, see pages G-21 through G-22. J15, J16, J25, J26, J50 & J51 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

PANEL MOUNTING

J15, J16, J25 & J26 Actuators

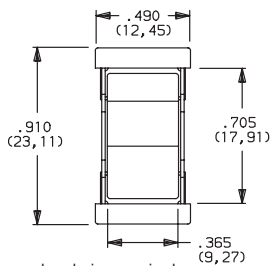


J50 Actuator

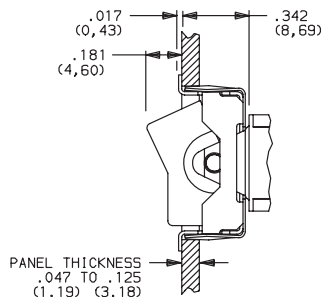


* For J50: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

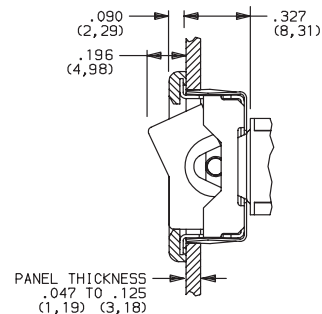
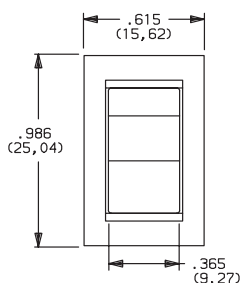
J15 ROCKER, SNAP-IN



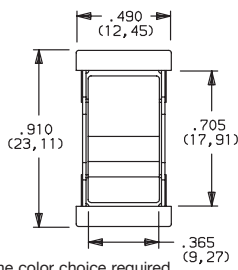
No frame color choice required



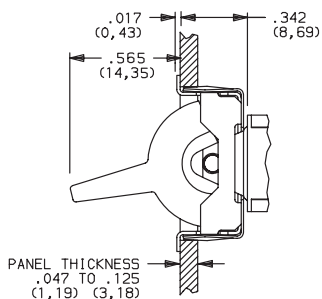
J16 ROCKER WITH FRAME, SNAP-IN



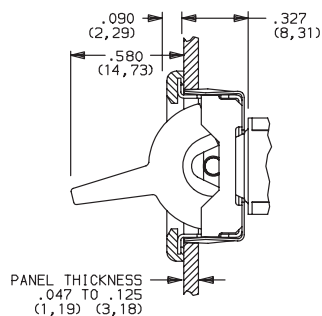
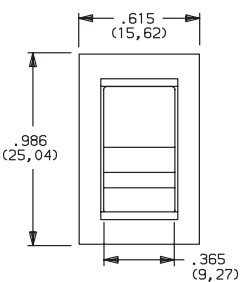
J25 LEVER, SNAP-IN



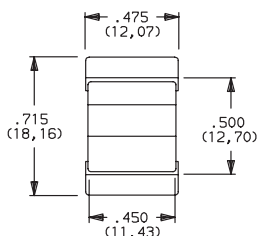
No frame color choice required



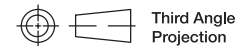
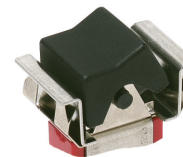
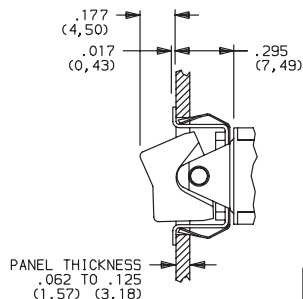
J26 LEVER WITH FRAME, SNAP-IN



J50 ROCKER, SNAP-IN



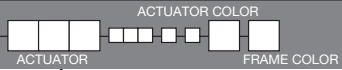
No frame color choice required



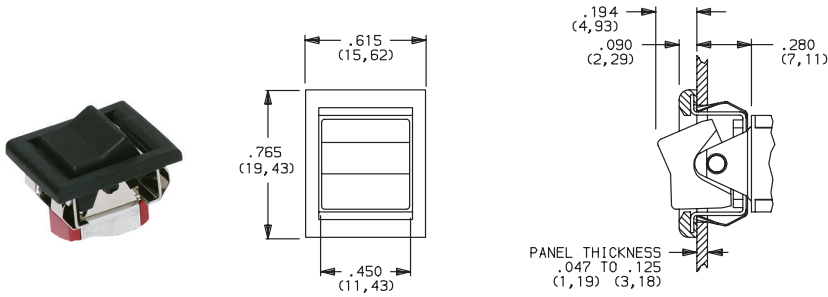
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-SNAP-IN FRONT MOUNT

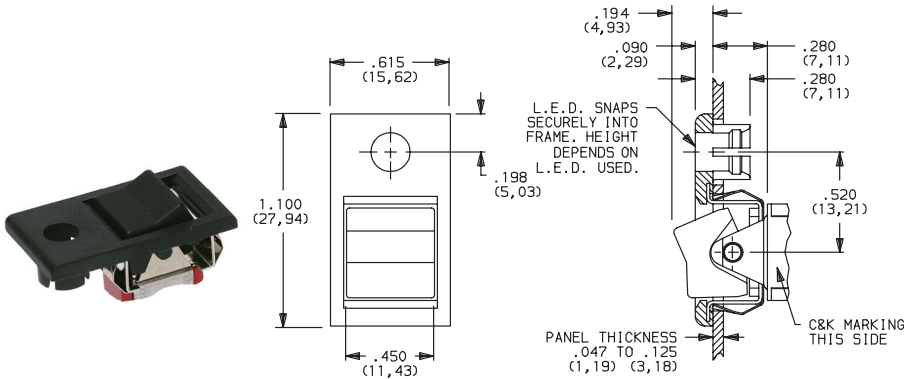


J51 ROCKER WITH FRAME, SNAP-IN



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

J52 ROCKER WITH FRAME FOR LED, SNAP-IN



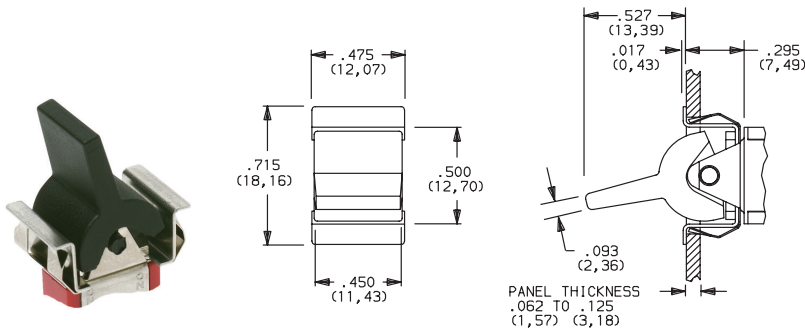
OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J15 or J25 options)
1	WHITE

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.

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

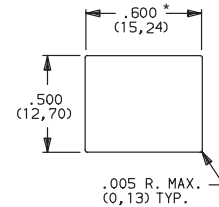
J60 LEVER, SNAP-IN



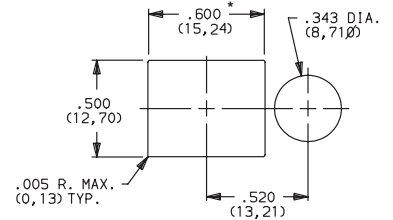
No frame color choice required

PANEL MOUNTING

J51, J60 & J61 Actuators

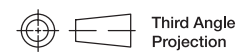
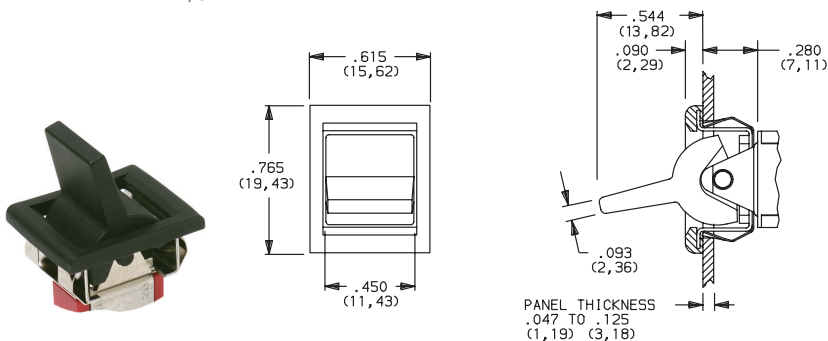


J52 Actuator



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



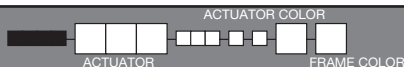
Third Angle Projection

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



7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-SNAP-IN FRONT MOUNT



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

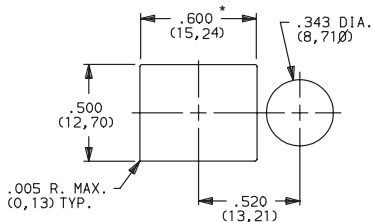
OPTION CODE	FRAME COLOR
2	BLACK
NONE	No Frame Color (J90 options)
1	WHITE

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

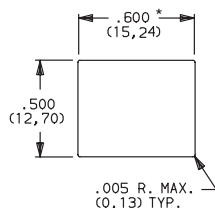
NOTE: Actuators & frames available separately, see pages G-21 through G-22. J62, J90 & J91 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z & Z3 terminations.

PANEL MOUNTING

J62 Actuator

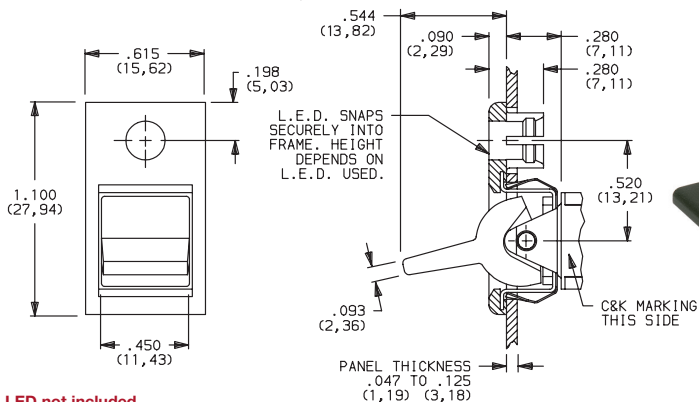


J90, J91 & J93 Actuators



* 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.

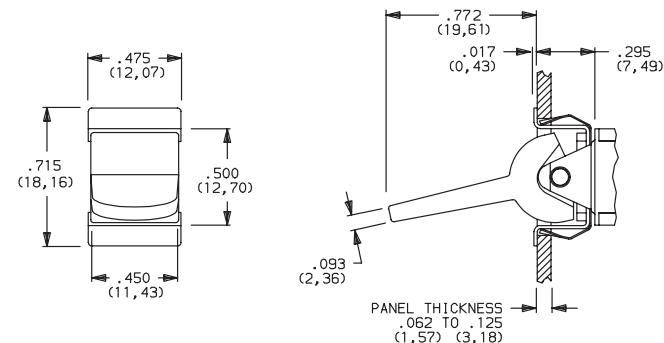
J62 LEVER WITH FRAME FOR LED, SNAP-IN



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



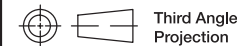
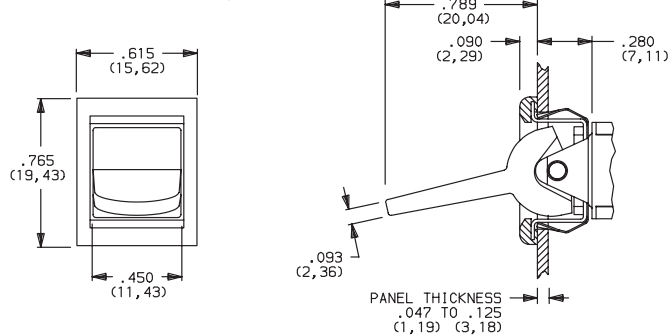
J90 LEVER, SNAP-IN



No frame color choice required.



J91 LEVER WITH FRAME, SNAP-IN

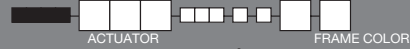


Dimensions are shown: Inches (mm)

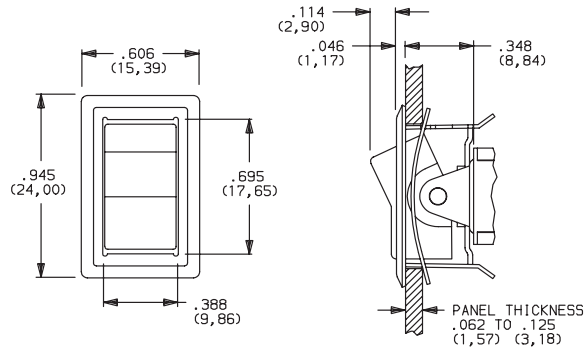
Specifications and dimensions subject to change

7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-REAR MOUNT



J11 ROCKER WITH FRAME



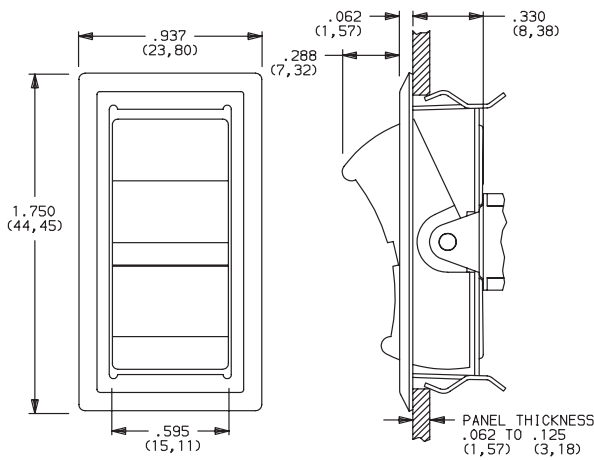
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

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.

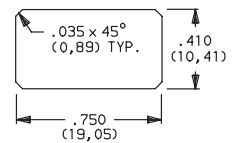
NOTE: Actuators & frames available separately, see pages G-21 through G-22. J11, J19, J21 & J37 Actuators available with C, W-W5, Z & Z3 terminations. J37 offered with Black Frame (2 color option) only.

J19 ROCKER WITH FRAME

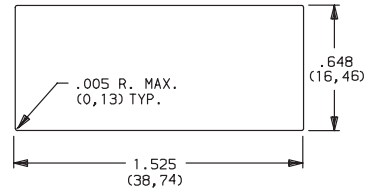


PANEL MOUNTING

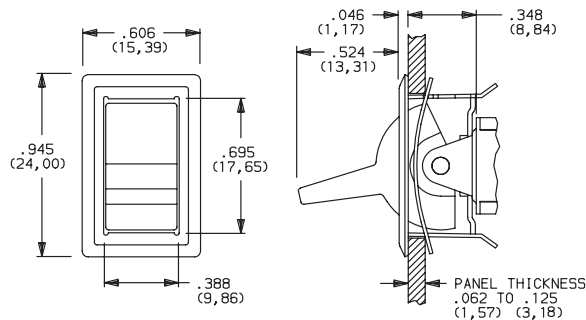
J11 & J21 Actuators



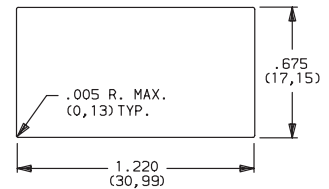
J19 Actuator



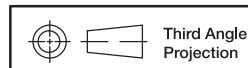
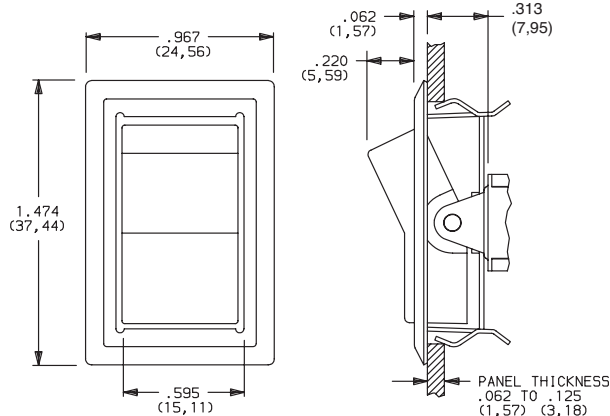
J21 LEVER WITH FRAME



J37 Actuator



J37 ROCKER WITH FRAME

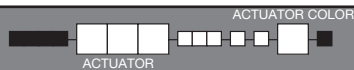


Dimensions are shown: Inches (mm)
 Specifications and dimensions subject to change



7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-PC MOUNT



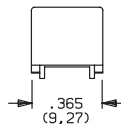
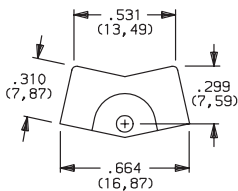
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

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

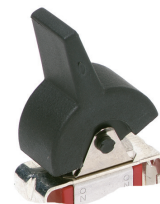
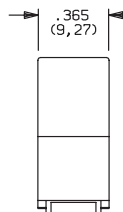
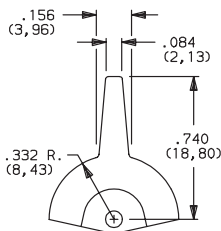
NOTE: Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

Actuators available separately, see page G-21 through G-22. J1, J2 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.

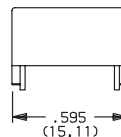
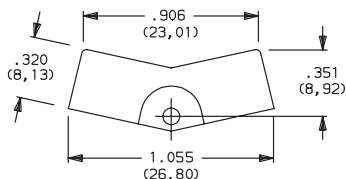
J1 ROCKER



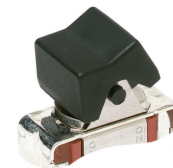
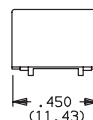
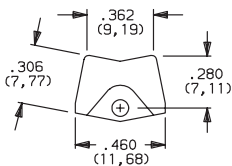
J2 LEVER



J3 ROCKER



J50 ROCKER



Rocker



Third Angle Projection

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

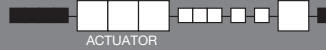


15 Jan 21

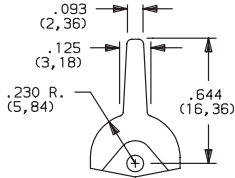
7000 Series Miniature Rocker & Lever Handle Switches

ACTUATOR-PC MOUNT

ACTUATOR COLOR



J60 LEVER

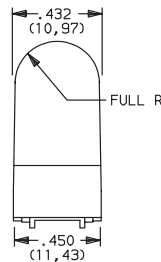
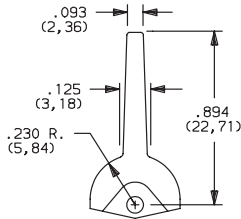


OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

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.

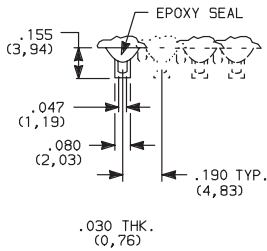
J90 LEVER



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

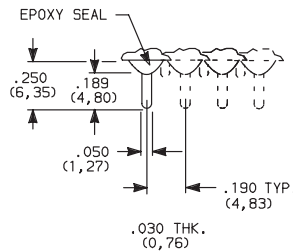
Z SOLDER LUG



SPDT thru 4PDT

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

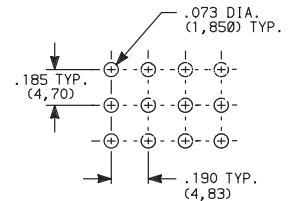
C PC THRU-HOLE



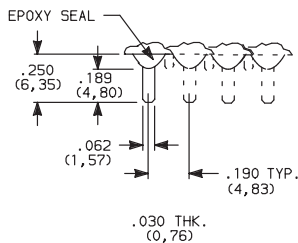
SPDT thru 4PDT

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

PC MOUNTING



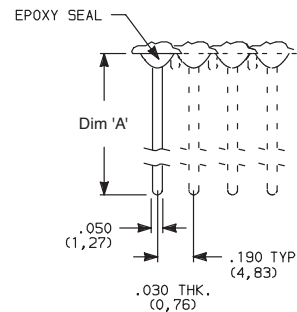
Z3 QUICK CONNECT



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.

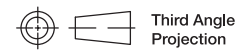
W, W3, W5 WIRE WRAP



SPDT thru 4PDT

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

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



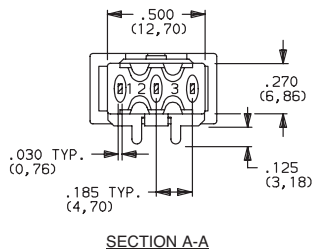
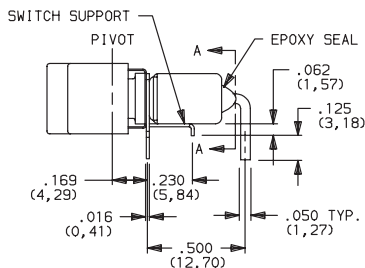
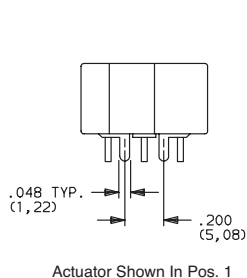
Third Angle Projection

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

7000 Series Miniature Rocker & Lever Handle Switches

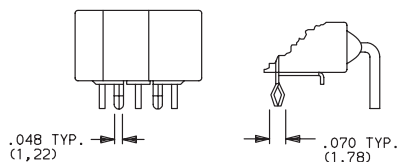
TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE

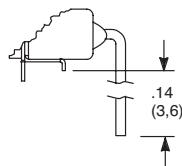


7101J1ABE2
Horizontal Actuation
SPDT

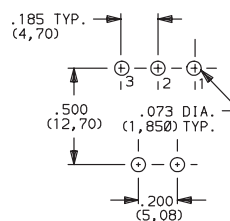
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



AW3 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



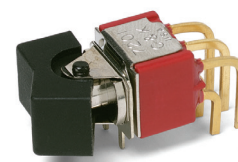
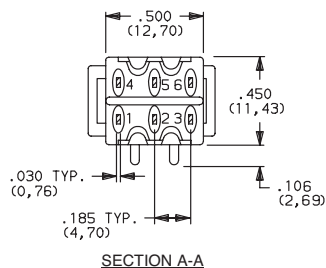
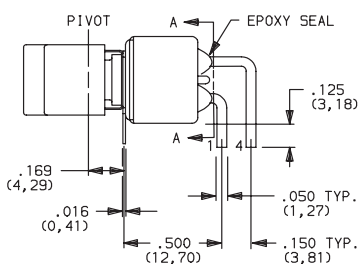
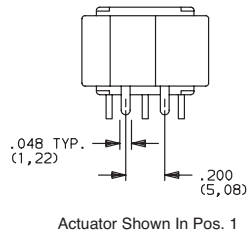
PC MOUNTING



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

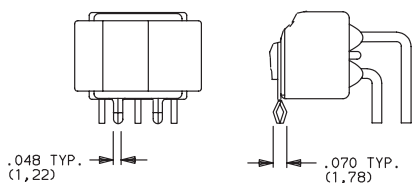
NOTE: PC pattern must clear switch support leg.

A RIGHT ANGLE, PC THRU-HOLE

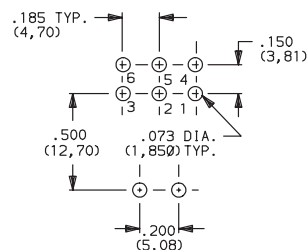


7201J1ABE2
Horizontal Actuation
DPDT

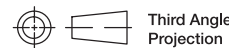
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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.



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

Rocker

G

C&K

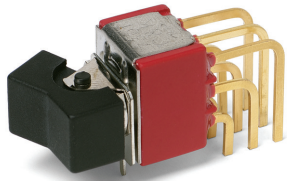
15 Jan 21

7000 Series Miniature Rocker & Lever Handle Switches

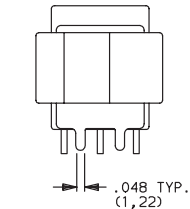
TERMINATIONS



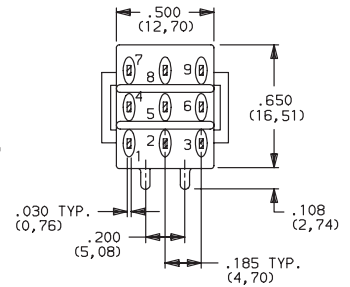
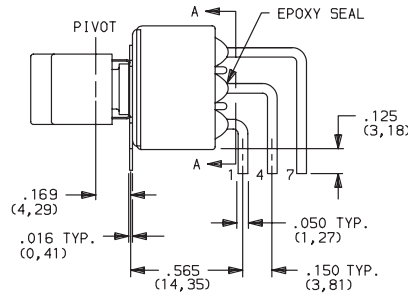
A RIGHT ANGLE, PC THRU-HOLE



7301J1ABE2
Horizontal Actuation
3PDT

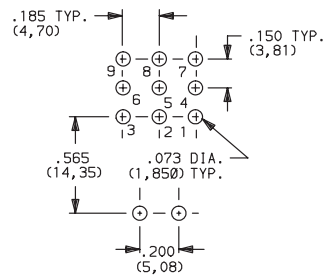


Actuator Shown In Pos. 1



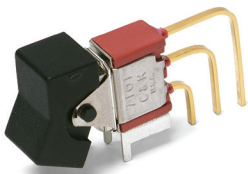
SECTION A-A

PC MOUNTING

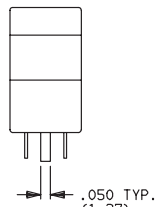


Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

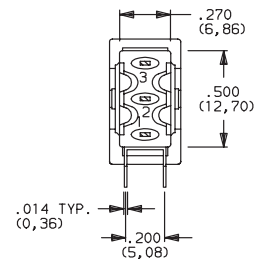
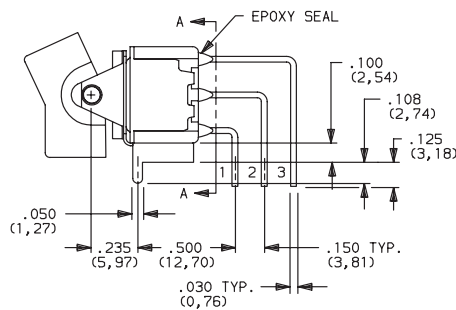
AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



7101J1AV2BE2
Vertical Actuation
SPDT

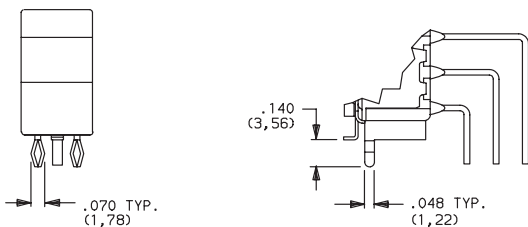


Actuator Shown In Pos. 1



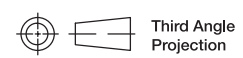
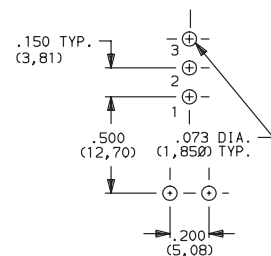
SECTION A-A

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



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



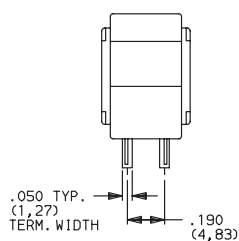
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



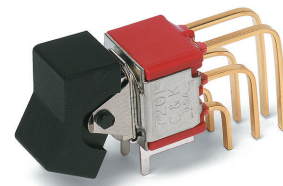
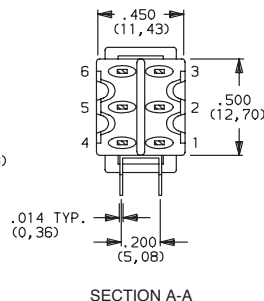
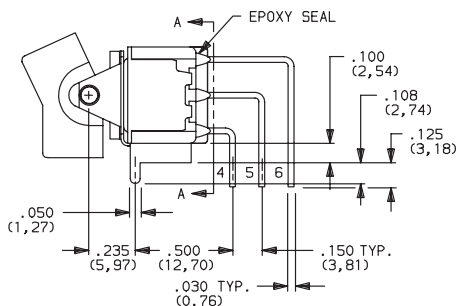
7000 Series Miniature Rocker & Lever Handle Switches

TERMINATIONS

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

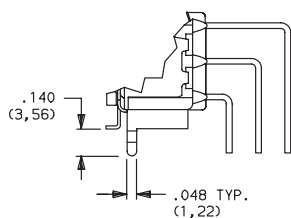
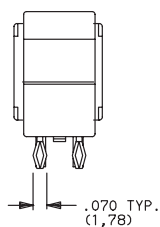


Actuator Shown In Pos. 1

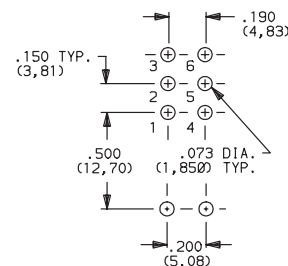


7201J1AV2BE2
Vertical Actuation
DPDT

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

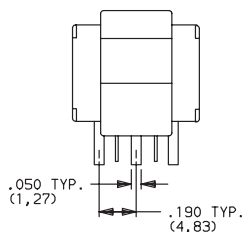


PC MOUNTING

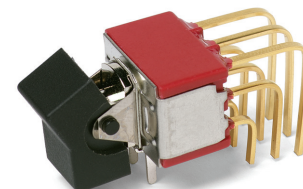
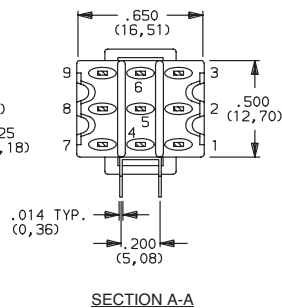
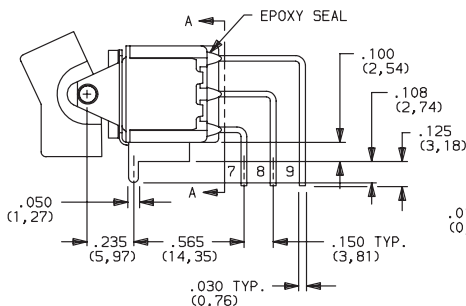


Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

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

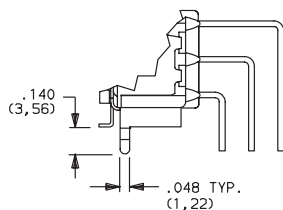
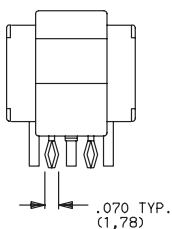


Actuator Shown In Pos. 1

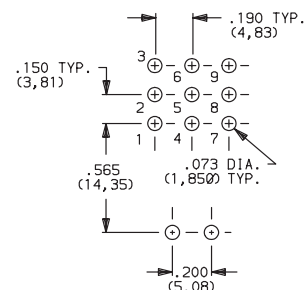


7301J1AV2BE2
Vertical Actuation
3PDT

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



PC MOUNTING



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



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

Rocker

G

C&K

15 Jan 21

G-16

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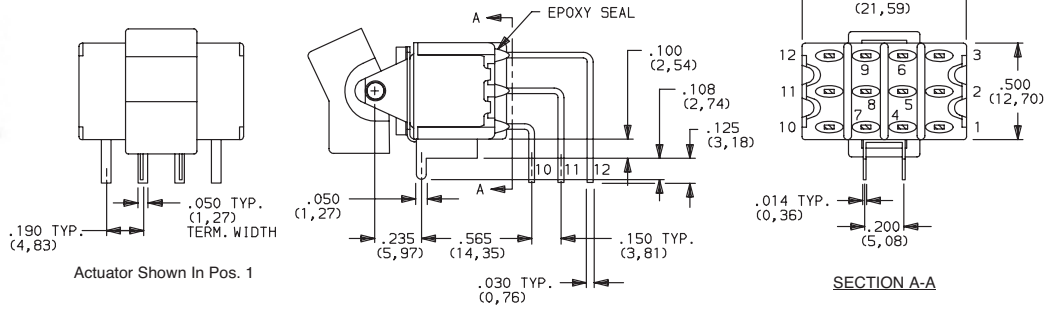
7000 Series Miniature Rocker & Lever Handle Switches

TERMINATIONS

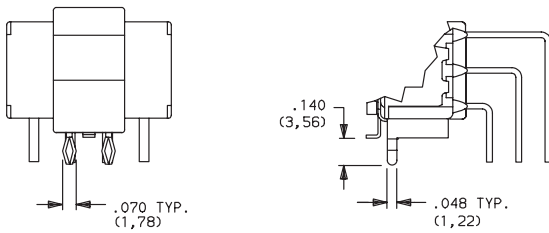
AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE,
.150" PITCH



7401J1AV2BE2
Vertical Actuation
4PDT

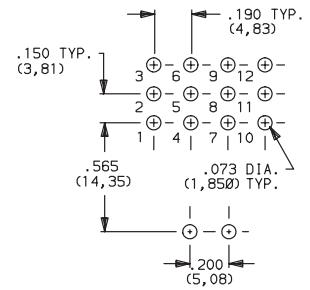


AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,
.150" PITCH

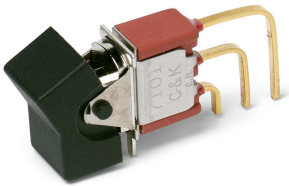


Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

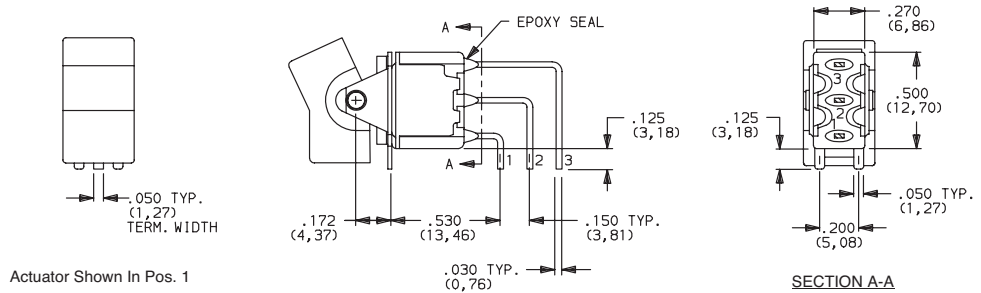
PC MOUNTING



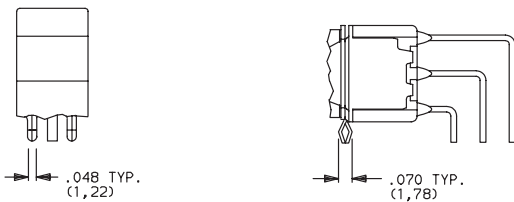
V5 VERTICAL RIGHT ANGLE, PC THRU-HOLE,
.150" PITCH



7101J1V5BE2
Vertical Actuation
SPDT

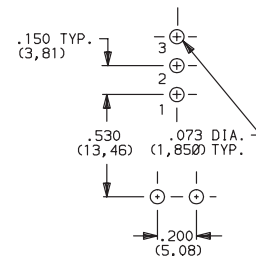


V51 VERTICAL RIGHT ANGLE, SNAP-IN,
PC THRU-HOLE, .150" PITCH



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

PC MOUNTING



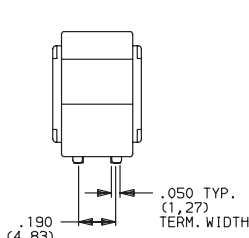
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



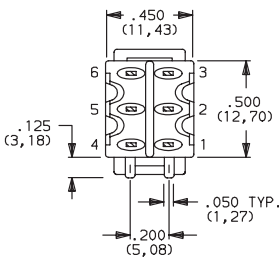
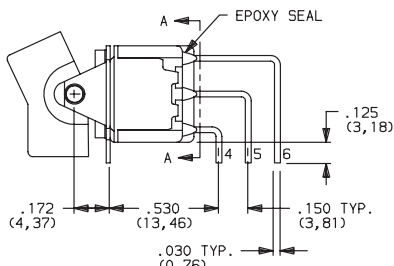
7000 Series Miniature Rocker & Lever Handle Switches

TERMINATIONS

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



Actuator Shown In Pos. 1

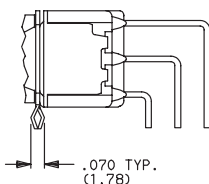
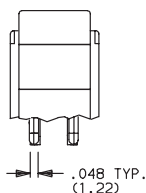


SECTION A-A

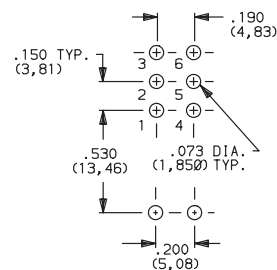


7201J1V5BE2
Vertical Actuation
DPDT

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



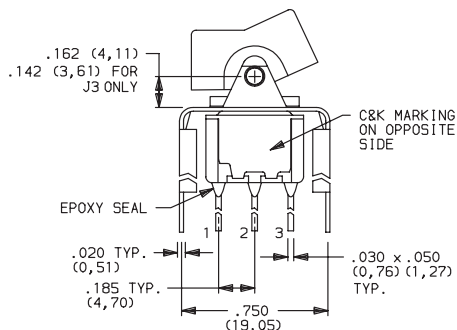
PC MOUNTING



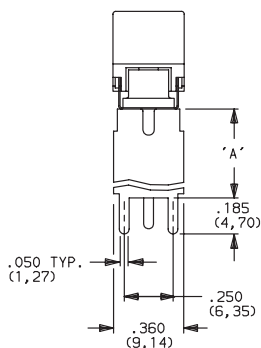
Not available with I seal option. Available actuators, see pages G-6 and G-12.
Terminal bend radii and lead-in manufacturing option.

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

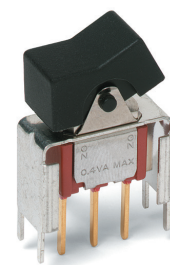
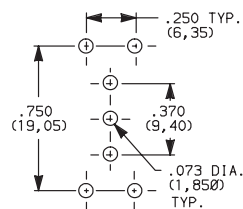
V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN



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	.630 (16,00)
V8	.953 (24,21)



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

7000 Series Miniature Rocker & Lever Handle Switches

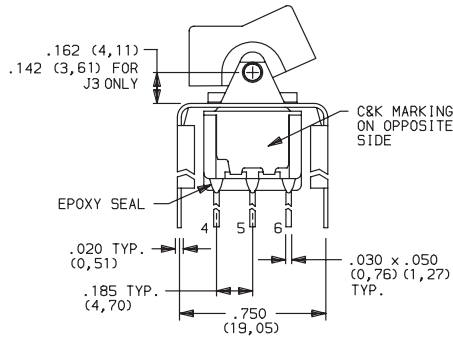
TERMINATIONS

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

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

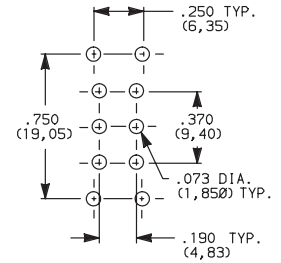


7201J1_BE2
DPDT



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)

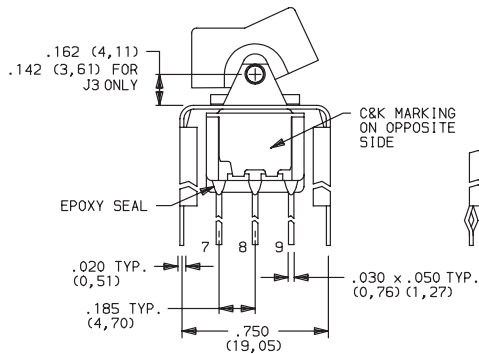
Not available with I seal option.
Available actuators, see pages G-6 and G-12.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET

V21 VERTICAL MOUNT, V-BRACKET, SNAP-IN

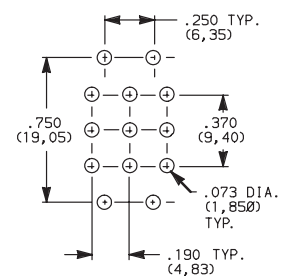


7301J1_BE2
3PDT



Actuator Shown In Pos. 1

PC MOUNTING

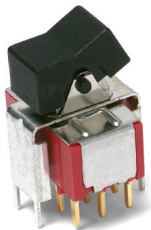


OPTION CODE	DIM 'A'
V2, V21	.555 (14,10)
V7	.630 (16,00)
V8	.953 (24,21)

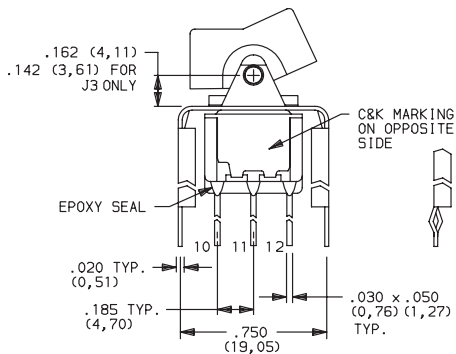
Not available with I seal option.
Available actuators, see pages G-6 and G-12.

V2, V7, V8 VERTICAL MOUNT, V-BRACKET

V21 VERTICAL MOUNT, V-BRACKET, SNAP-IN

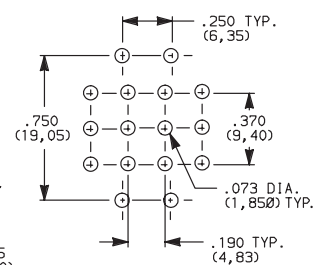


7401J1_BE2
4PDT



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.



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

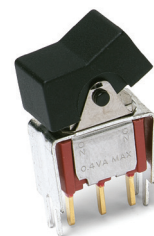


7000 Series Miniature Rocker & Lever Handle Switches

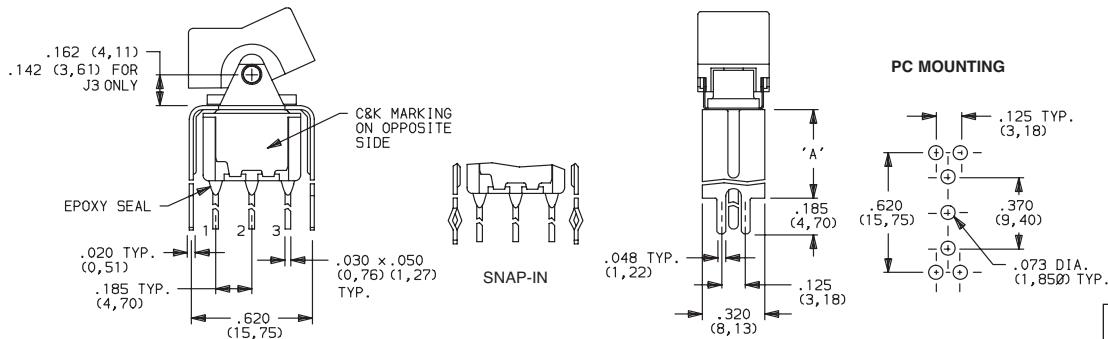
TERMINATIONS

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



7101J1_BE2
SPDT



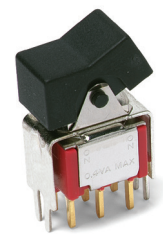
Actuator Shown In Pos. 1

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

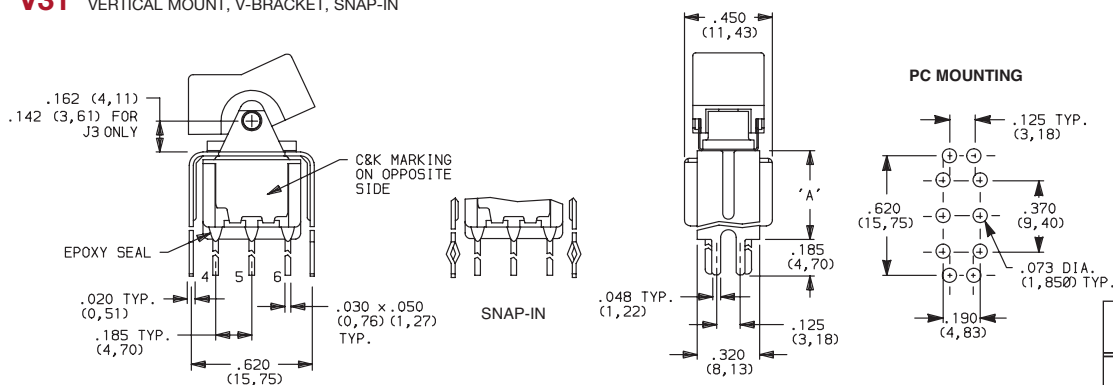
Not available with I seal option.
Available actuators, see pages G-6 and G-12.

V3, V4, V9 VERTICAL MOUNT, V-BRACKET

V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



7201J1_BE2
DPDT



Actuator Shown In Pos. 1

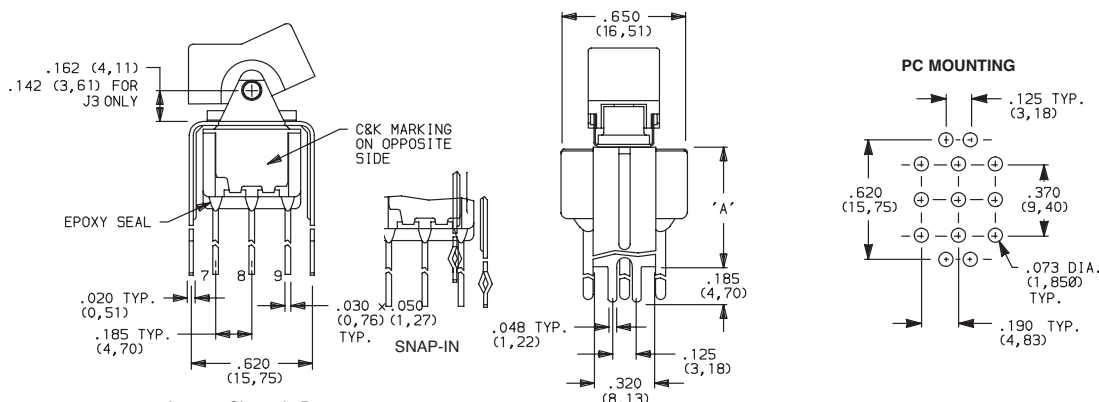
OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4	.630 (16,00)
V9	1.150 (29,21)

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

V4, V9 VERTICAL MOUNT, V-BRACKET



7301J1_BE2
3PDT



Actuator Shown In Pos. 1

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.



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

Rocker

G

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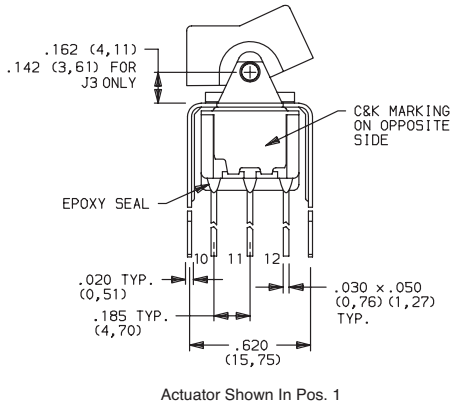
7000 Series Miniature Rocker & Lever Handle Switches

TERMINATIONS

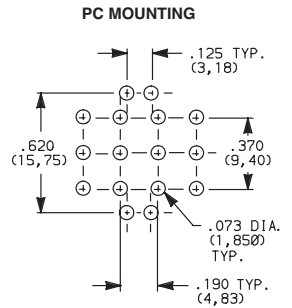
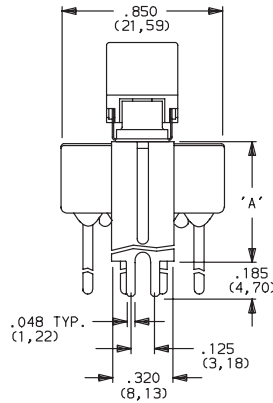
V4, V9 VERTICAL MOUNT, V-BRACKET



7401J1_BE2
4PDT



Actuator Shown In Pos. 1



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.

- CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- END CONTACTS: Coin silver, with gold plate over nickel plate.
- CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- END CONTACTS: Coin silver, silver plated.
- CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- TERMINALS: Copper alloy, with matte-tin over nickel plate.

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

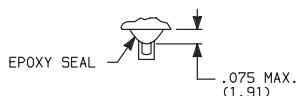
B contact material standard with all terminations except C, Z & Z3.
Q contact material standard with C, Z & Z3 terminations.

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

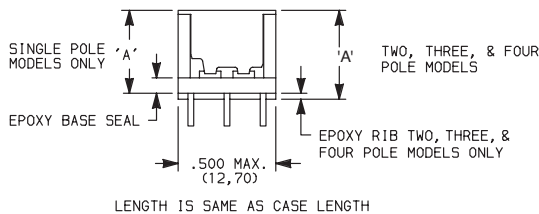
NOTE: Any models supplied with Q, B, G S, P & R contact material are RoHS compliant.

SEAL

E EPOXY SEAL

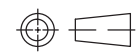


I EPOXY POTTED BASE



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)



Third Angle
Projection

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

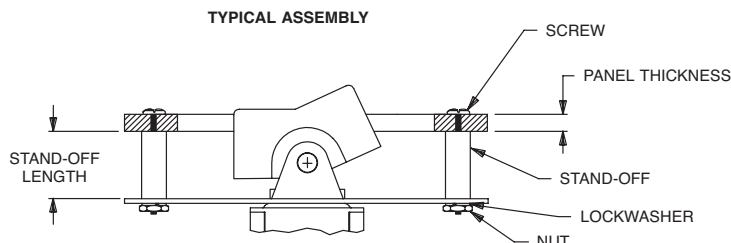


7000 Series Miniature Rocker & Lever Handle Switches

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

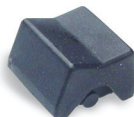
J3 & J37 Actuators



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



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

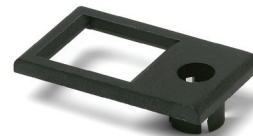
Frame for J37 Actuator



PART NO.
445400746 BLACK ENAMEL

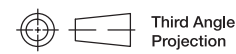
Material: Spring Steel

Frame for J52 & J62 Actuators



PART NO.
613301000 WHITE
613302263 BLACK
613303000 RED

Material: Nylon
 Finish: Matte



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

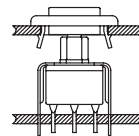


7000 Series Miniature Rocker & Lever Handle Switches

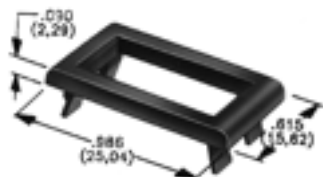
AVAILABLE HARDWARE

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



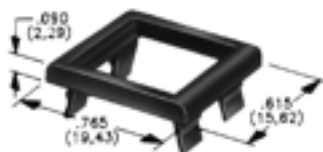
J1 & J2 Actuators



.047" (1,19) PANEL THK. .062" (1,57) PANEL THK. .090" (2,29) PANEL THK. .125" (3,18) PANEL THK.

PART NO. PART NO. PART NO. PART NO.
452902263 **452702263** **452802263** **452602263** BLACK

J50, J60 & J90 Actuators

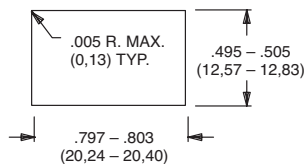


.047" (1,19) PANEL THK. .062" (1,57) PANEL THK. .090" (2,29) PANEL THK. .125" (3,18) PANEL THK.

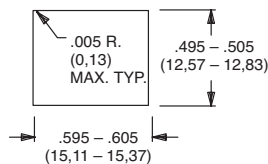
PART NO. PART NO. PART NO. PART NO.
432502263 **432602263** **432702263** **432802263** BLACK

PANEL MOUNTING

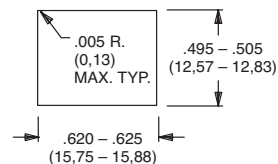
For part numbers
 4529xxxxx, 4527xxxxx,
 4528xxxxx, 4526xxxxx



For part numbers
 4325xxxxx, 4326xxxxx



For part numbers
 4327xxxxx, 4328xxxxx



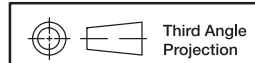
Rocker



G



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

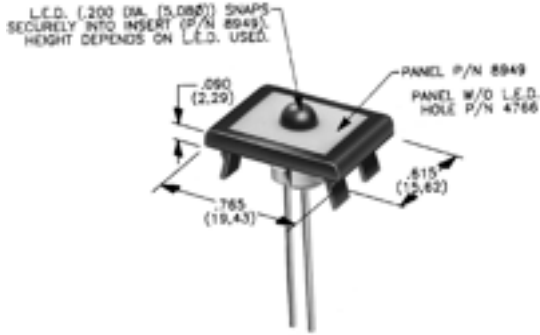
7000 Series Miniature Rocker & Lever Handle Switches

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

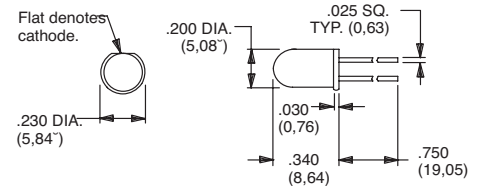
PART NO.
476602000 BLACK

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.

E Series

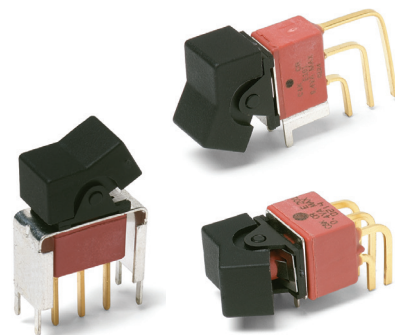
Sealed Miniature Rocker and Lever Handle Switches

Features/Benefits

- Sealed against solder and cleaning process contaminants
- ESD Resistance—all actuator options
- Rocker, case & bushing UL 94V-0
- RoHS compliant

Typical Applications

- Telecommunications
- Instrumentation
- Computers & peripherals



Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material (E1XX & E2XX Models): 7.5 AMPS @ 125 V AC or 28 V DC; 3 AMPS @ 250 V AC. (E3XX Models): 5 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC. See page G-36 for additional ratings.

ELECTRICAL LIFE: E1XX and E2XX models: 40,000 make-and-break cycles at full load. E3XX models: 30,000 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.

ELECTROSTATIC DISCHARGE (ESD) OPTION: All actuator options: 15,000 V DC max. @ sea level, actuator to terminals.

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).

Materials

CASE & BUSHING: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0).

ACTUATOR: Nylon, black standard, internal o-ring seal standard with all actuators.

FRAME: Spring steel, black standard.

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

ACTUATOR PIVOT & MOUNTING BRACKET: Nylon.

ACTUATOR PIVOT RETAINER: Stainless steel.

CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-36 for additional contact materials.

TERMINAL SEAL: Epoxy.

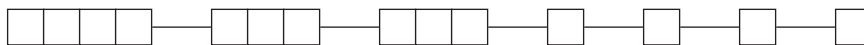
HARDWARE: Nut, Screw & Lockwasher: Stainless steel. Standoff: Nylon standard, aluminum available, consult Customer Service Center.

NOTE: Any models supplied with Q, B, G, S, P & R 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.

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-26 through G-38. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.



Switch Function

- E101** SP On-None-On
- E103** SP On-Off-On
- E105** SP Mom.-Off-Mom.
- E107** SP On-Off-Mom.
- E108** SP On-None-Mom.
- E201** DP On-None-On
- E203** DP On-Off-On
- E205** DP Mom.-Off-Mom.
- E207** DP On-Off-Mom.
- E208** DP On-None-Mom.
- E211** DP On-On-On
- E213** DP On-On-Mom.
- E215** DP Mom.-On-Mom.
- E301** 3P On-None-On

Actuator

- J1** .531" long rocker
- J2** Lever
- J3** .906" long rocker
- J11** Rocker with frame
- J21** Lever with frame
- J50** .362" long rocker
- J60** Lever
- J90** Lever

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
- 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
- V21** .555" high, V-bracket, snap-in
- V31** .460" high, V-bracket, snap-in

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

Actuator Color

- 2** Black
- 3** Red

Frame Color

- 2** Black
- NONE** No frame color required

Metal Frame Color

- (J11, J21 Actuators)
- 2** Black

Rocker



G

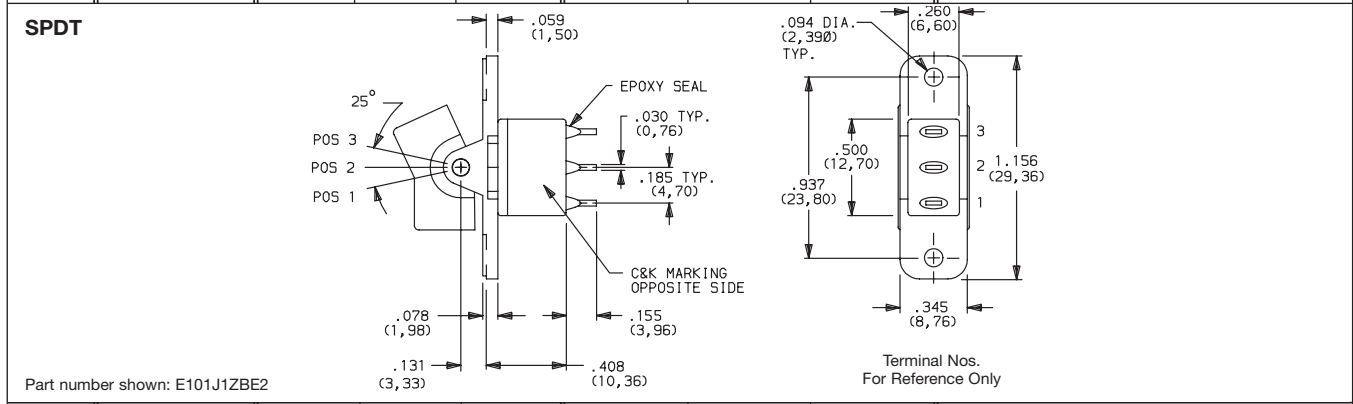


E Series Sealed Miniature Rocker and Lever Handle Switches

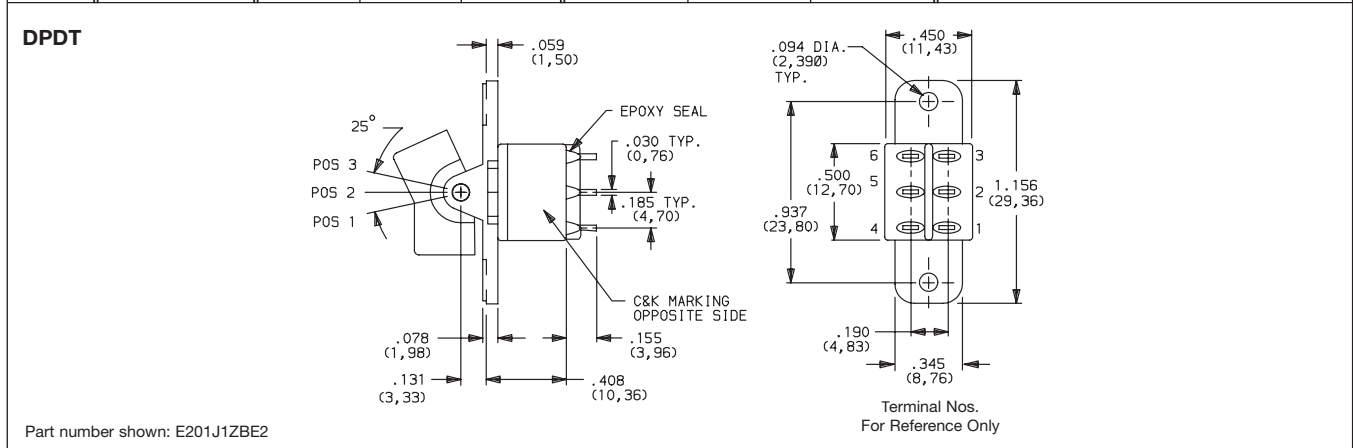
SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
		C&K marking on opposite side			C&K marking on opposite side			
SP	E101	ON	NONE	ON	2-3	N/A	2-1	
	E103	ON	OFF	ON				
	E105	MOM.	OFF	MOM.				
	E107	ON	OFF	MOM.				
	E108	ON	NONE	MOM.				



DP	E201	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	E203	ON	OFF	ON				
	E205	MOM.	OFF	MOM.				
	E207	ON	OFF	MOM.				
	E208	ON	NONE	MOM.				
	E211**	ON	ON	ON				
	E213**	ON	ON	MOM.				
	E215**	MOM.	ON	MOM.				

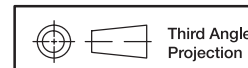


MOM. = Momentary

** [Wiring for 3-way switch](#). Hardware available separately, see Technical Data section of this catalog.

All models with all options when ordered with G, Q, R or S contact material.

Rocker



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



E Series Sealed Miniature Rocker and Lever Handle Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
3P	E301	ON	NONE	ON	2-3-5-6-8-9	N/A	2-1-5-4-8-7	<p>3PDT</p>
3PDT								Terminal Nos. For Reference Only

Part number shown: E301J1ZBE2

MOM. = Momentary

** [Wiring for 3-way switch.](#) see Technical Data section of this catalog.

All models with all options when ordered with G, Q, R and S contact material.

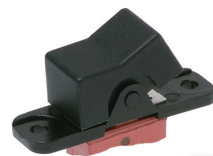
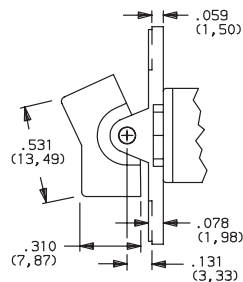
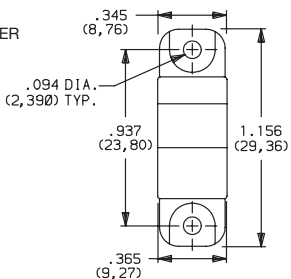
ACTUATOR-PANEL REAR MOUNT

OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

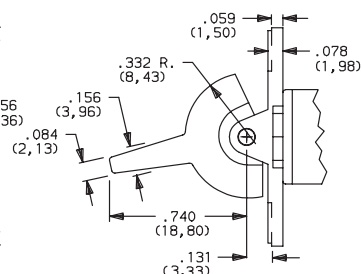
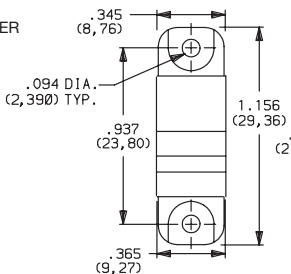
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on switches with panel mounting bracket. Internal o-ring actuator seal standard. Actuators available separately, see page G-36. Hardware available separately, see Technical Data section of this catalog. J1, J2 actuators available with C, Z or Z3 terminations.

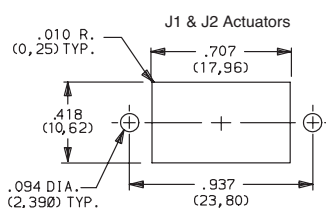
J1 LEVER



J2 LEVER



PANEL MOUNTING



Rocker



Third Angle Projection

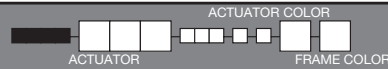
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



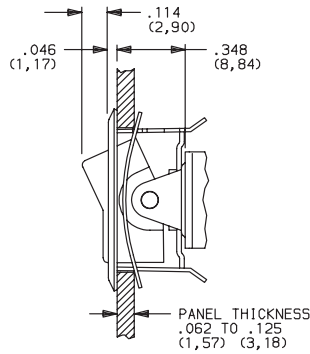
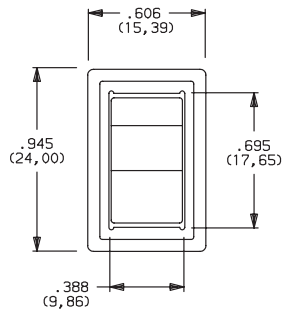
15 Jan 21

E Series Sealed Miniature Rocker and Lever Handle Switches

ACTUATOR-REAR MOUNT



J11 ROCKER WITH FRAME

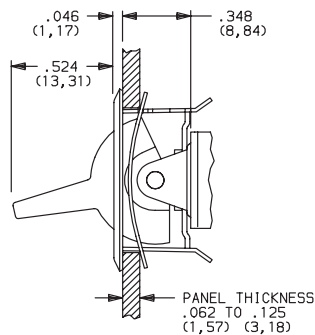
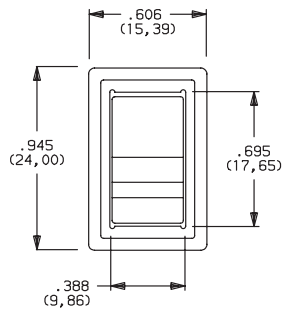


OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

OPTION CODE	FRAME COLOR
2	BLACK

NOTE: This option has reduced anti-static capability.

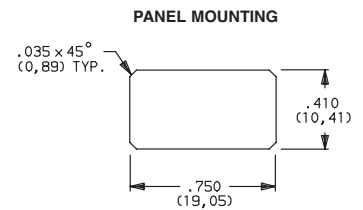
J21 LEVER WITH FRAME



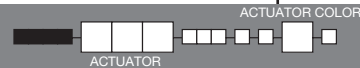
Actuator finish: Matte, frame finish: gloss. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Internal o-ring actuator seal standard. Actuators & frames available separately, see page G-36. Hardware available separately, see Technical Data section of this catalog. J11 & J21 actuators available with C, Z & Z3 terminations.

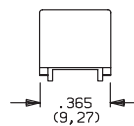
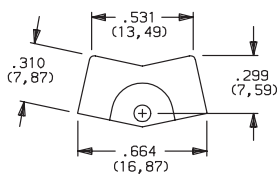
NOTE: This option has reduced anti-static capability.



ACTUATOR-PC MOUNT

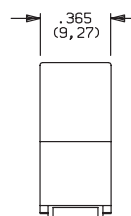
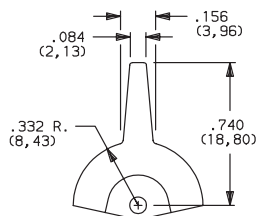


J1 ROCKER



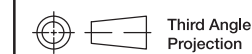
OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

J2 LEVER



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 switches with panel mounting bracket. Internal o-ring actuator seal standard. Actuators available separately, see page G-36. Hardware available separately, see Technical Data section of this catalog. J1, J2 actuators available with A, A3, AV2, AV3, V2-V61 terminations.

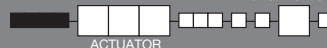


Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

E Series Sealed Miniature Rocker and Lever Handle Switches

ACTUATOR-PC MOUNT

ACTUATOR COLOR



OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

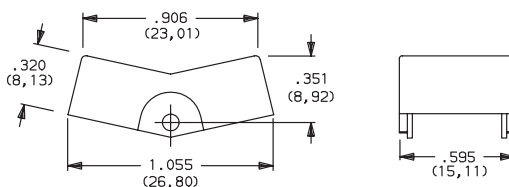
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on switches with panel mounting bracket. Internal o-ring actuator seal standard. Actuators available separately, see page G-36. Hardware available separately, see Technical Data section of this catalog.

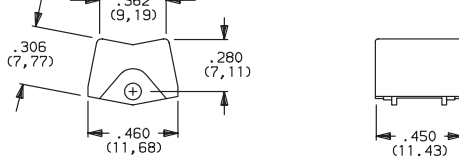
J3 actuators available with AV2, AV3 & V2-V61 terminations. Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

J50, J60 & J90 actuators available with A, AV2, AV3, V2 – V61 terminations.

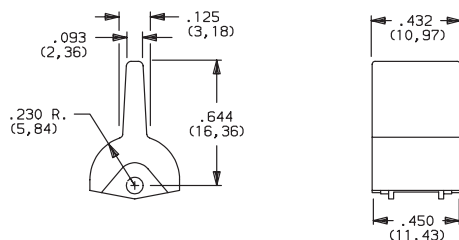
J3 ROCKER



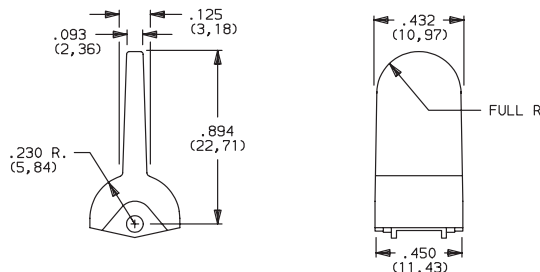
J50 ROCKER



J60 LEVER

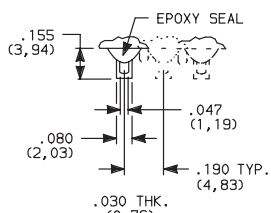


J90 LEVER



TERMINATIONS

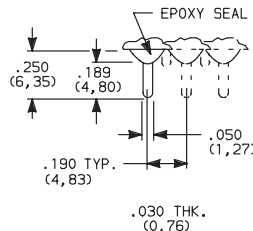
Z SOLDER LUG



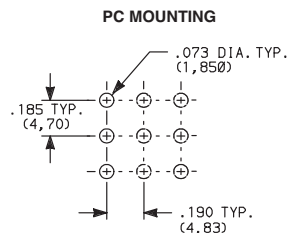
SPDT thru 3PDT

Not available with P, S, & R contact materials. Available actuators, see page G-27-28.

C PC THRU-HOLE



SPDT thru 3PDT



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

Rocker

G

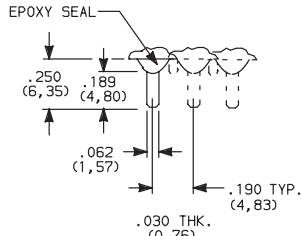


15 Jan 21

E Series Sealed Miniature Rocker and Lever Handle Switches

TERMINATIONS

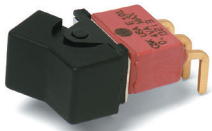
Z3 QUICK CONNECT



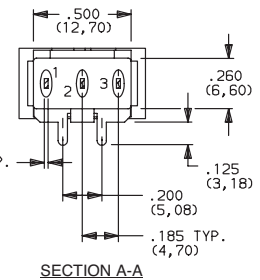
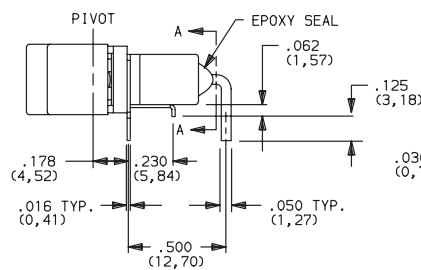
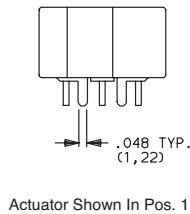
Not available with P, S, & R contact materials. Available actuators, see pages G-27 thru G-28. Mating quick connector available; order part number 530100000, page G-37.

SPDT thru 3PDT

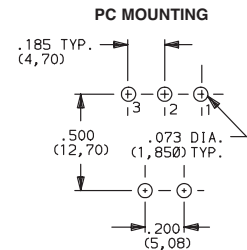
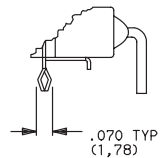
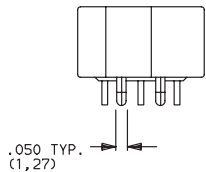
A RIGHT ANGLE, PC THRU-HOLE



E101J1ABE2
Horizontal Actuation
SPDT



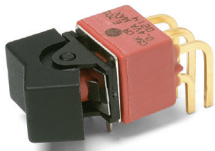
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



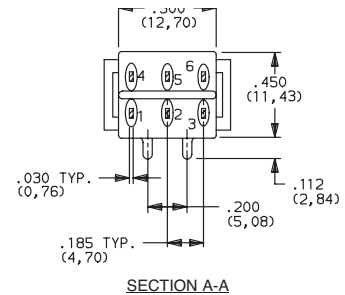
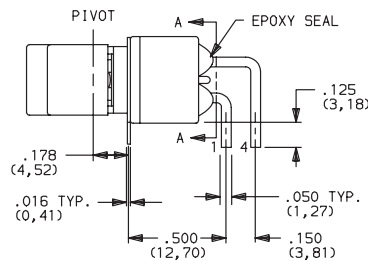
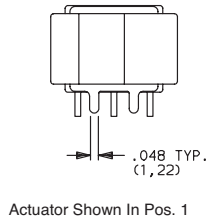
NOTE: Not available with J3, J50, J60 and J90 actuators. Available actuators, see pages G-27 thru G-29. Terminal bend radii and lead-in manufacturing option.

NOTE: PC mounting pattern must clear switch support leg.

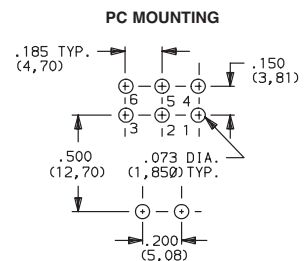
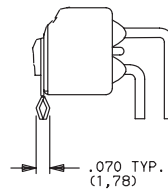
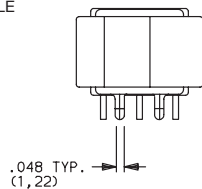
A RIGHT ANGLE, PC THRU-HOLE



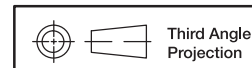
E201J1ABE2
Horizontal Actuation
DPDT



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



NOTE: Not available with J3 actuator. Available actuators, see pages G-27 thru G-29. Terminal bend radii and lead-in manufacturing option.



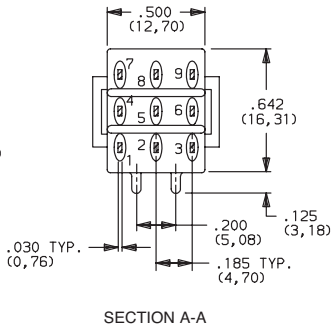
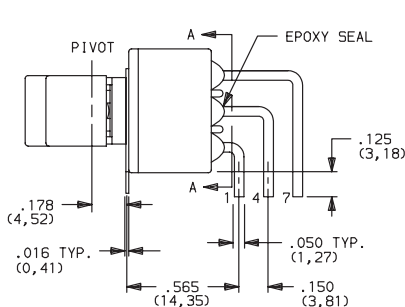
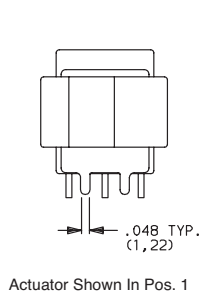
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



E Series Sealed Miniature Rocker and Lever Handle Switches

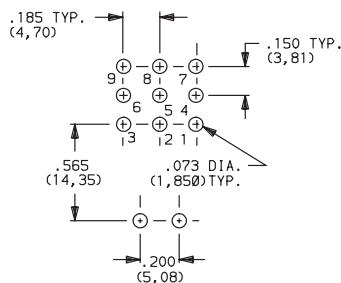
TERMINATIONS

A RIGHT ANGLE, PC THRU-HOLE



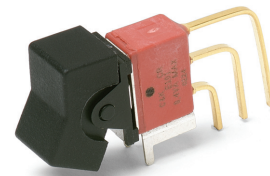
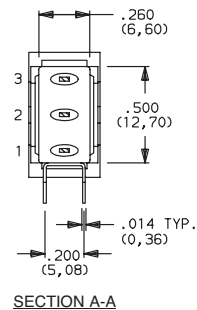
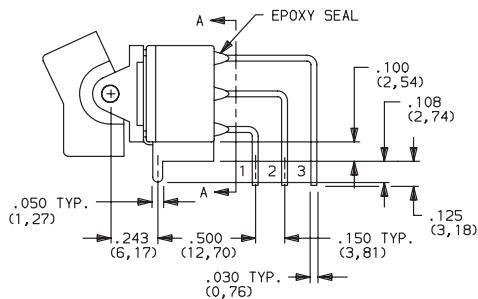
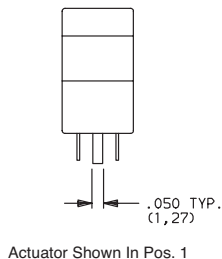
E301J1ABE2
Horizontal Actuation
3PDT

PC MOUNTING



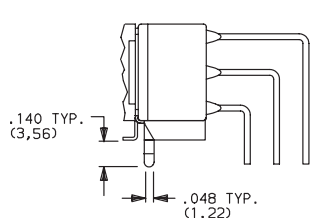
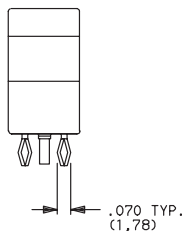
NOTE: Terminal bend radii and lead-in manufacturing option. Available actuators, see pages G-27 thru G-29.

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

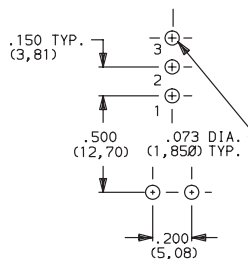


E101J1AV2BE2
Vertical Actuation
SPDT

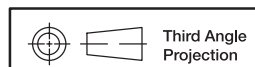
AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



PC MOUNTING



NOTE: Terminal bend radii and lead-in manufacturing option. Available actuators, see pages G-27 thru G-29.



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

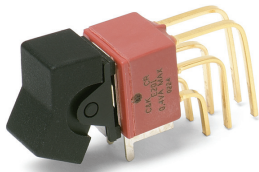
Rocker

E Series Sealed Miniature Rocker and Lever Handle Switches

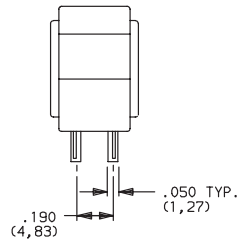
TERMINATIONS



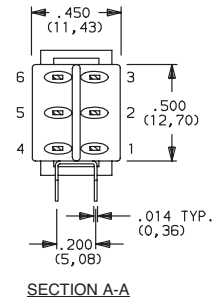
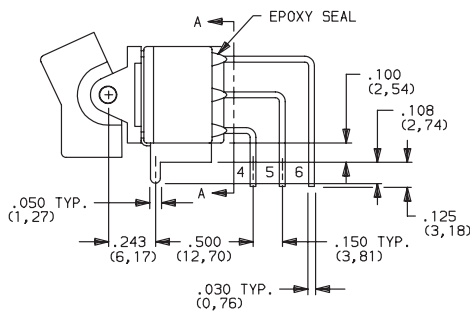
AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



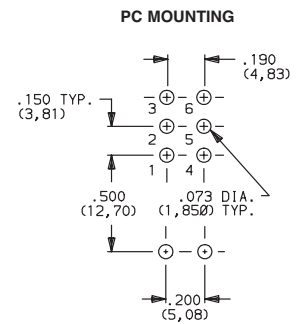
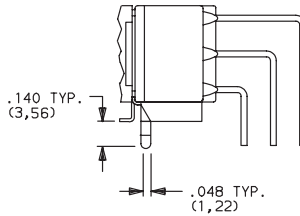
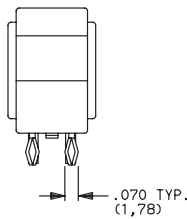
E201J1AV2BE2
Vertical Actuation
DPDT



Actuator Shown In Pos. 1

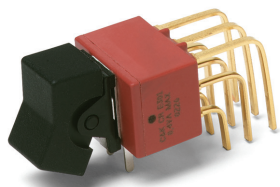


AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH

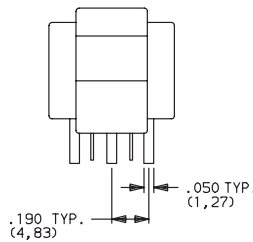


NOTE: Terminal bend radii and lead-in manufacturing option. Available actuators, see pages G-27 thru G-29.

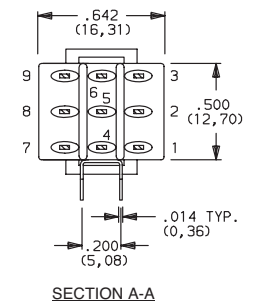
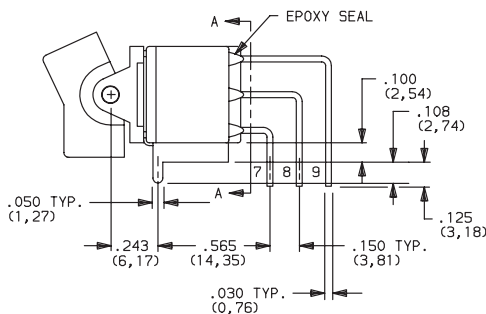
AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



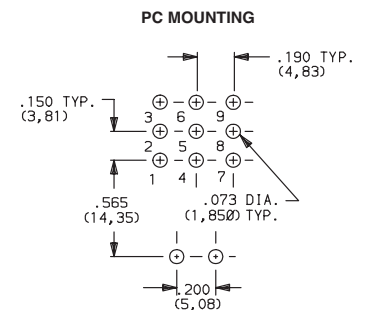
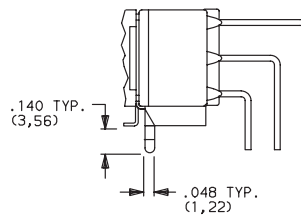
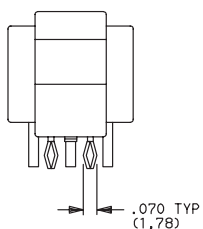
E301J1AV2BE2
Vertical Actuation
3PDT



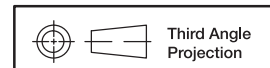
Actuator Shown In Pos. 1



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



NOTE: Terminal bend radii and lead-in manufacturing option. Available actuators, see pages G-27 thru G-29.



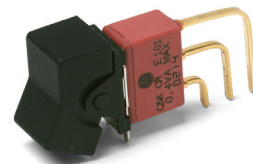
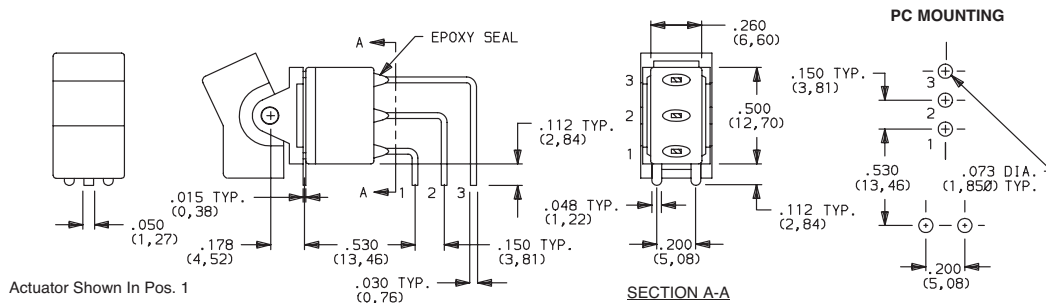
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



E Series Sealed Miniature Rocker and Lever Handle Switches

TERMINATIONS

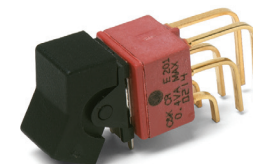
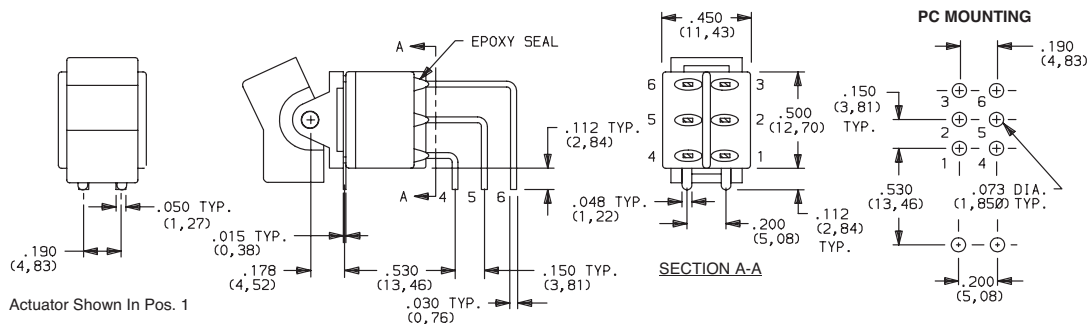
V5 VERTICAL RIGHT ANGLE, PC THRU-HOLE,
.150" PITCH



E101J1V5BE2
Vertical Actuation
SPDT

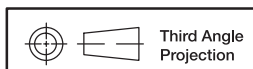
NOTE: Terminal bend radii and lead-in manufacturing option.
Available actuators, see pages G-27 thru G-29.

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



E201J1V5BE2
Vertical Actuation
DPDT

NOTE: Terminal bend radii and lead-in manufacturing option.
Available actuators, see pages G-27 thru G-29.

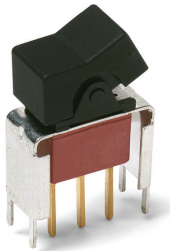


E Series Sealed Miniature Rocker and Lever Handle Switches

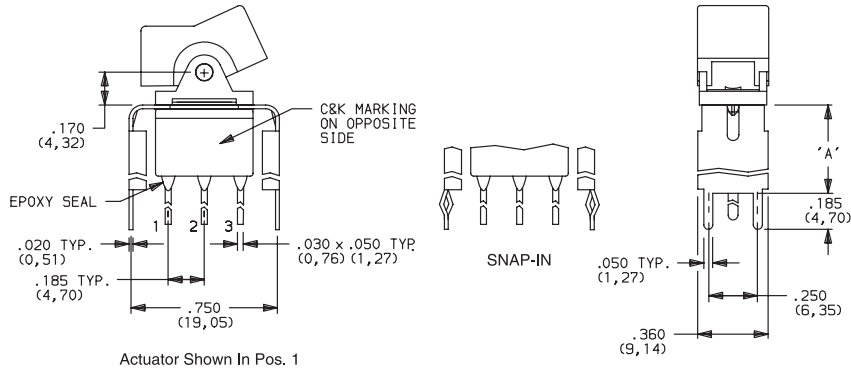
TERMINATIONS

V6, V7, V8 VERTICAL MOUNT, V-BRACKET

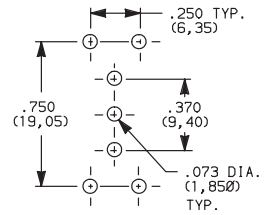
V21 VERTICAL MOUNT, V-BRACKET, SNAP-IN



E101J1_BE2
SPDT



PC MOUNTING

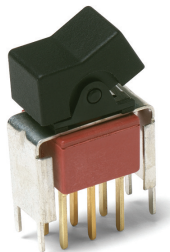


OPTION CODE	DIM 'A'
V21	.555 (14, 10)
V6	.460 (11, 68)
V7	.630 (16, 00)
V8	.953 (24, 21)

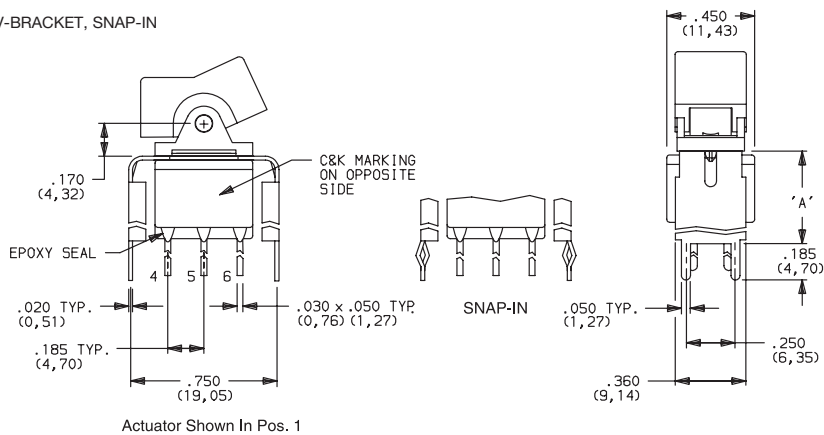
NOTE: Available actuators, see pages G-27 thru G-29.

V6, V7, V8 VERTICAL MOUNT, V-BRACKET

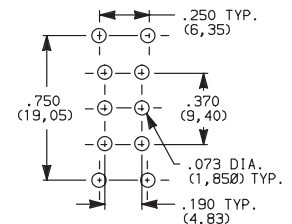
V21 VERTICAL MOUNT, V-BRACKET, SNAP-IN



E201J1_BE2
DPDT



PC MOUNTING

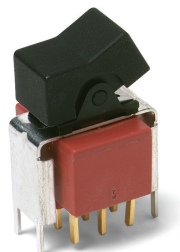


OPTION CODE	DIM 'A'
V21	.555 (14, 10)
V6	.460 (11, 68)
V7	.630 (16, 00)
V8	.953 (24, 21)

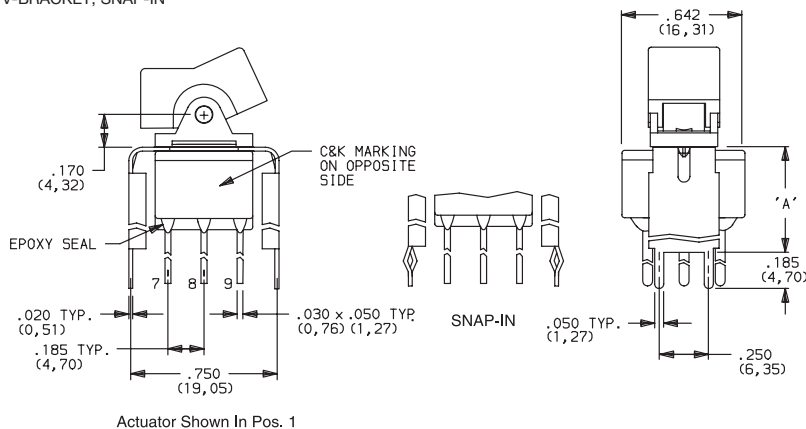
NOTE: Available actuators, see pages G-27 thru G-29.

V7, V8 VERTICAL MOUNT, V-BRACKET

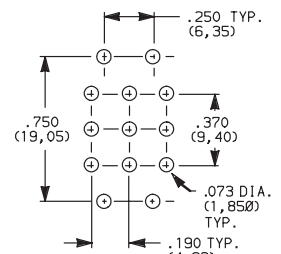
V21 VERTICAL MOUNT, V-BRACKET, SNAP-IN



E301J1_BE2
3PDT

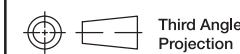


PC MOUNTING



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

NOTE: Available actuators, see pages G-27 thru G-29.



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

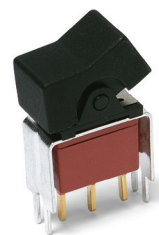


E Series Sealed Miniature Rocker and Lever Handle Switches

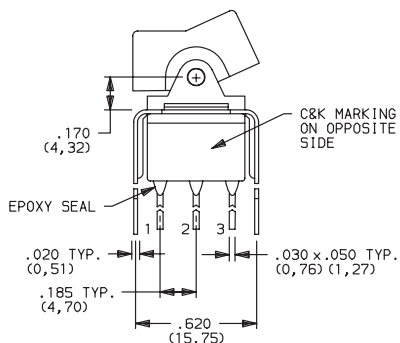
TERMINATIONS

V3, V4 VERTICAL MOUNT, V-BRACKET

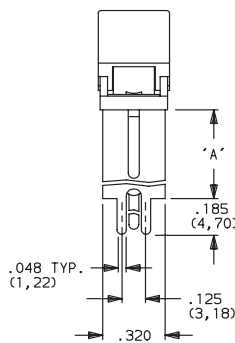
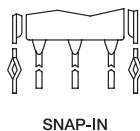
V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



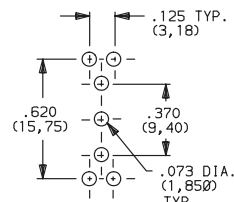
E101J1_BE2
SPDT



Actuator Shown In Pos. 1



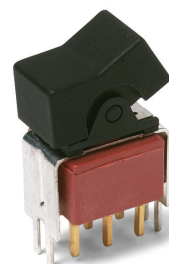
PC MOUNTING



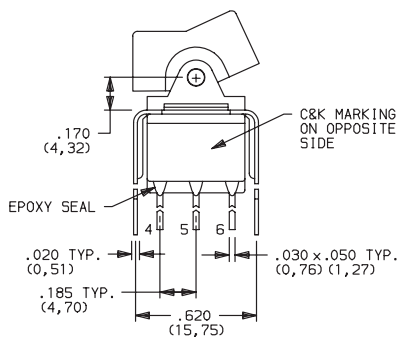
OPTION CODE	DIM 'A'
V3, V31	.460 (11,68)
V4	.630 (16,00)

V3, V4 VERTICAL MOUNT, V-BRACKET

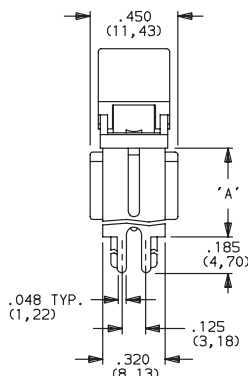
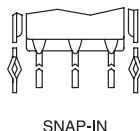
V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



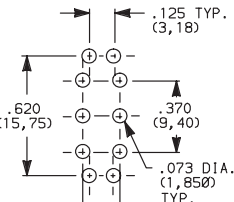
E201J1_BE2
DPDT



Actuator Shown In Pos. 1



PC MOUNTING



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

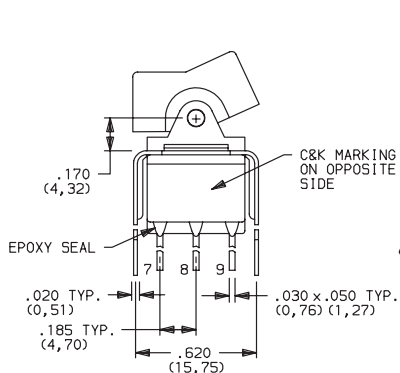
NOTE: Available actuators, see pages G-27 thru G-29.

V4 VERTICAL MOUNT, V-BRACKET

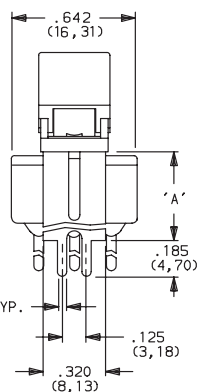
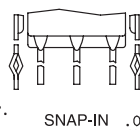
VERTICAL MOUNT, V-BRACKET, SNAP-IN



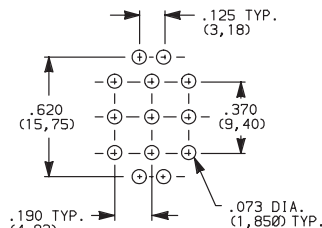
E301J1_BE2
3PDT



Actuator Shown In Pos. 1



PC MOUNTING



OPTION CODE	DIM 'A'
V41	.630 (16,00)

NOTE: Available actuators, see pages G-27 thru G-29.



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

Rocker



E Series Sealed Miniature Rocker and Lever Handle Switches

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 ⁷		
Q	SILVER ^{4,5}	SILVER ⁵	POWER	E1XX & E2XX MODELS: 7.5 AMPS @125 V AC OR 28 V DC; 3 AMPS @250 V AC. E3XX MODELS: 5 AMPS @ 125 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	E1XX AND E2XX MODELS: 0.4 VA MAX @20 V AC OR DC MAX. OR 7.5 AMPS @125 V AC OR 28 V DC; 3 AMPS @ 250 V AC. DC E3XX MODELS: 0.4 VA MAX. @ 20 V AC OR DC MAX. OR 5 AMPS @ 125 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, with gold flash over silver plate. Or copper alloy, silver plated.

⁶ TERMINALS: Copper alloy, with matte-tin over nickel plate.

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

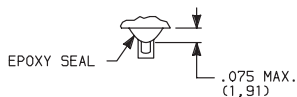
All models with all options when ordered with G, Q, S & R contact material.

B contact material standard with all terminations.

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

SEAL

E EPOXY SEAL



AVAILABLE HARDWARE

J2, J21 Actuators

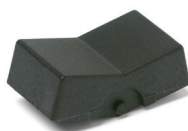


PART NO.

760502263 BLACK
760503000 RED

Material: Nylon
Finish: Matte

J3 Actuator



PART NO.

766602263 BLACK
766603000 RED

Material: Nylon
Finish: Matte

J1, J11 Actuators

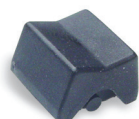


PART NO.

776A02263 BLACK
776A03000 RED

Material: Nylon
Finish: Matte

J50 Actuator



PART NO.

775A02263 BLACK
775A03000 RED

Material: Nylon
Finish: Matte

J60 Actuator



PART NO.

613802263 BLACK
598103000 RED

Material: Nylon
Finish: Matte

J90 Actuator

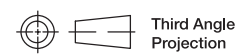


PART NO.

598002263 BLACK
598003000 RED

Material: Nylon
Finish: Matte

NOTE: Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog. Other colors available, consult Customer Service Center.



Third Angle
Projection

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

C&K

15 Jan 21



E Series Sealed Miniature Rocker and Lever Handle Switches

AVAILABLE HARDWARE

Fits Z3 Termination female connector



PART NO.
530100000

Available in loose pieces.

Frame for J11, J21 Actuators

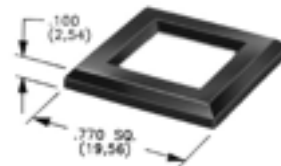


PART NO.
764500746 BLACK ENAMEL
764601106 RETAINING SPRING

Material: Spring Steel



J50, J60 & J90 Actuators



MATTE

PART NO.

486702000

Material: Nylon
Finish: Matte or Gloss

GLOSS

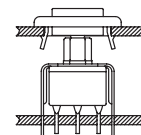
PART NO.

486802000 BLACK

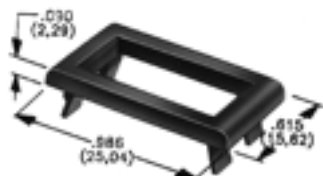
NOTE: Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog. Other colors available, consult Customer Service Center.

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



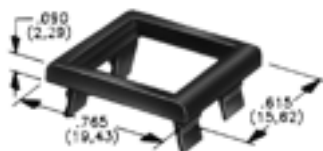
J1 & J2 Actuators



.047" (1,19) PANEL THK. .062" (1,57) PANEL THK. .090" (2,29) PANEL THK. .125" (3,18) PANEL THK.

PART NO.	PART NO.	PART NO.	PART NO.
452902263	452702263	452802263	452602263 BLACK
452903000	452703000	452803000	452603000 RED

J50, J60 & J90 Actuators

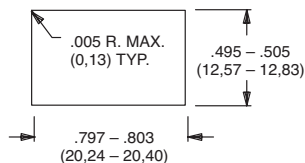


.047" (1,19) PANEL THK. .062" (1,57) PANEL THK. .090" (2,29) PANEL THK. .125" (3,18) PANEL THK.

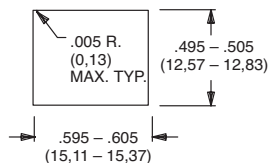
PART NO.	PART NO.	PART NO.	PART NO.
432502263	432602263	432702263	432802263 BLACK
432503000	432603000	432703000	432803000 RED

PANEL MOUNTING

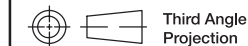
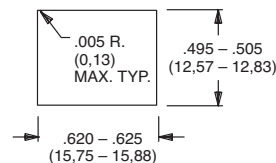
For part numbers
4529xxxxx, 4527xxxxx,
4528xxxxx, 4526xxxxx



For part numbers
4325xxxxx, 4326xxxxx



For part numbers
4327xxxxx, 4328xxxxx



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

Rocker



G



15 Jan 21

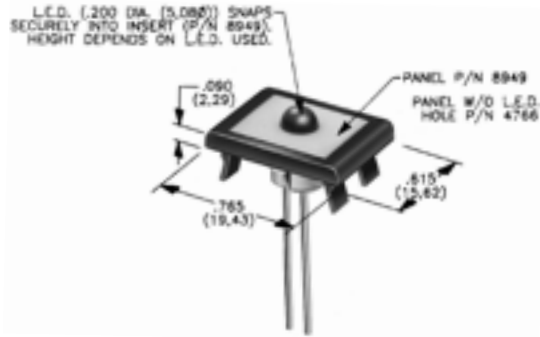
E Series Sealed Miniature Rocker and Lever Handle Switches

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**

**BLANK PANEL INSERT
WITHOUT HOLE FOR LED**

PART NO.

894902000
894903000

PART NO.

476602000 BLACK
476603000 RED

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



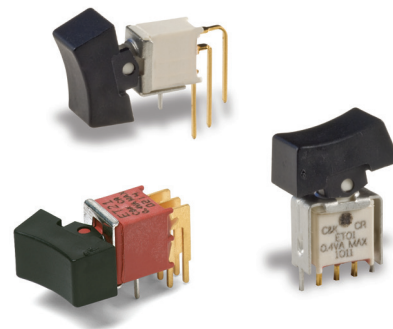
ET Series Sealed Subminiature Rocker Switches

Features/Benefits

- Sealed against solder and cleaning process contaminants
- Rocker, bushing & case—UL 94V-0
- Small footprint—saves space
- RoHS compliant

Typical Applications

- Telecommunications
- Instrumentation
- Computers & peripherals



Specifications

CONTACT RATING: B contact material: 0.4 VA max. @ 20 V AC or DC max. Q contact material: Copper alloy, silver plated. See page G-43 for additional ratings.

ELECTRICAL LIFE: ETX1 models: 60,000 make-and-break cycles at full load. All other models: 30,000 cycles.

CONTACT RESISTANCE: Below 20 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).

PACKAGING: Surface mount switches standard in tape and reel packaging, see page G-45 for drawings and reel information.

Materials

CASE & BUSHING: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0) or glass filled 4/6 nylon, flame retardant, heat stabilized (UL 94V-0).

ACTUATOR: Nylon, black standard. Internal o-ring seal standard with all actuators. SA surface mount: High temperature material, glass filled 46 nylon, flame retardant, heat stabilized (UL 94V-0).

SWITCH SUPPORT: Brass, matte-tin plated.

CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-43 for additional contact materials.

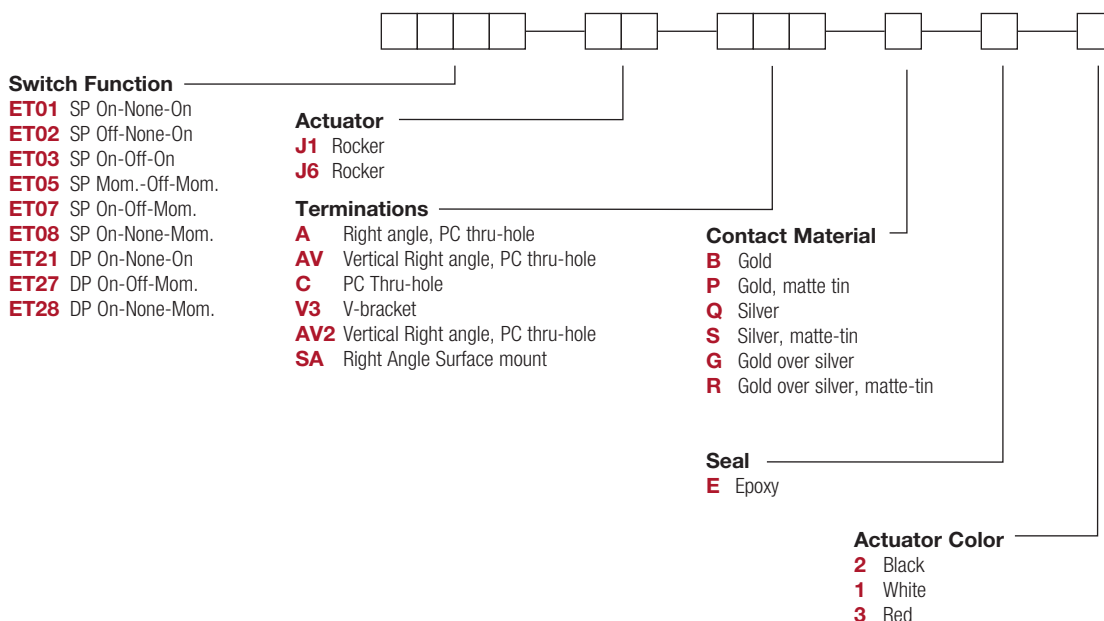
TERMINAL SEAL: Epoxy.

NOTE: Any models supplied with Q, B, G, S, P & R 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.

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-40 thru G-44. For additional options not shown in catalog, consult Customer Service Center. All models are process sealed to withstand machine soldering temperatures and pressure wash cleaning methods.



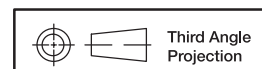
ET Series Sealed Subminiature Rocker Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
SP	ET01	ON	NONE	ON	2-3	N/A	2-1	
	ET03	ON	OFF	ON		OPEN		
	ET05	MOM.	OFF	MOM.				
	ET07	ON	OFF	MOM.	N/A	SPDT		
	ET08	ON	NONE	MOM.	OPEN	N/A	3-1	
<p>SPDT</p> <p>Part number shown: ET01J6CBE2</p> <p>ET02 Models: Omit terminal 2</p> <p>Terminal Nos. For Reference Only</p>								
DP	ET21	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	ET27	ON	OFF	MOM.		OPEN		
	ET28	ON	NONE	MOM.				
<p>DPDT</p> <p>Part number shown: ET21J6CBE2</p> <p>Terminal Nos. For Reference Only</p>								

MOM. = Momentary

All models with all options when ordered with G, S, R or Q contact material.



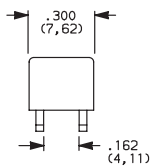
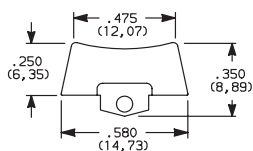
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



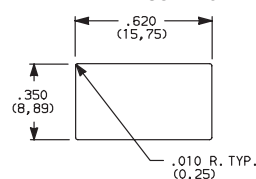
ET Series Sealed Subminiature Rocker Switches



J1 ROCKER

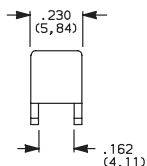
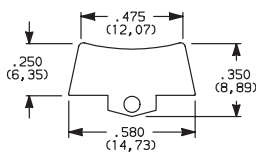


PANEL MOUNTING

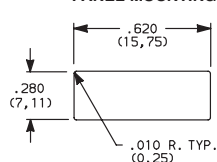


Available with all models except ET0X with A & SA & SA1 terminations.

J6 ROCKER



PANEL MOUNTING



Standard with ET0X model with A & SA & SA1 terminations.

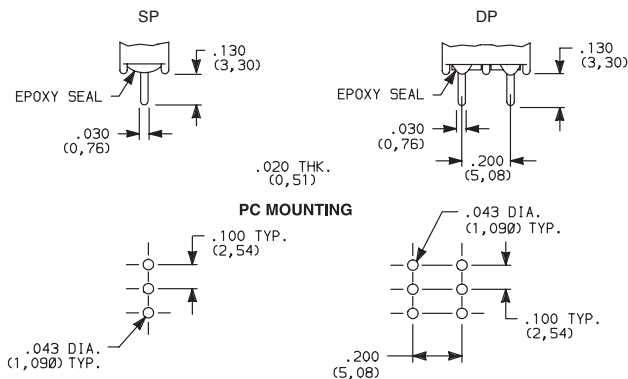
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

Actuators available separately, see page G-45. Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Internal o-ring actuator seal standard.

TERMINATIONS

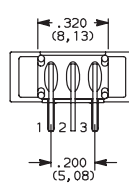
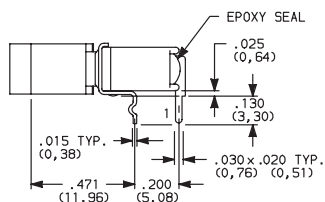
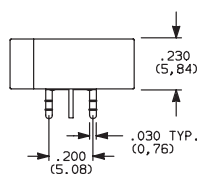
C PC THRU-HOLE



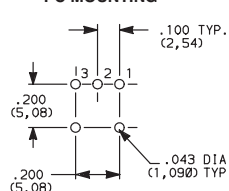
ET02 Models: Omit center hole.

SP & DP

A RIGHT ANGLE, PC THRU-HOLE



PC MOUNTING



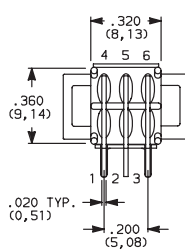
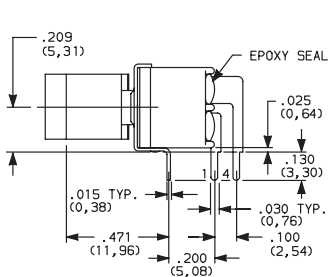
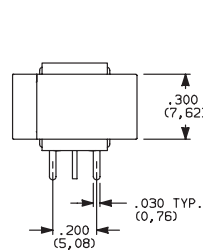
ET01J6ABE2
Horizontal Actuation
SPDT

Actuator Shown In Pos. 1

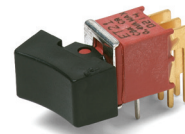
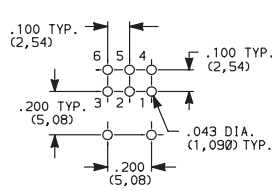
Not available with ET02 model.

J6 actuator std. only on ET0X models with A terminations.

A RIGHT ANGLE, PC THRU-HOLE



PC MOUNTING



ET21J1ABE2
Horizontal Actuation
DPDT

Actuator Shown In Pos. 1



Third Angle
Projection

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

Rocker

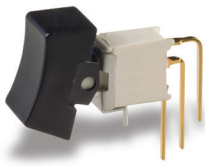
G



ET Series Sealed Subminiature Rocker Switches

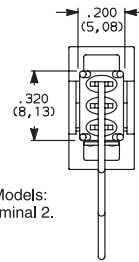
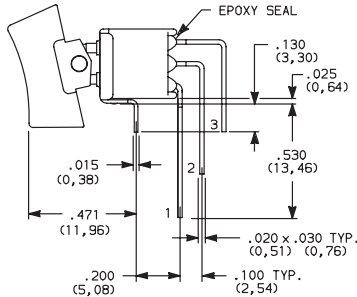
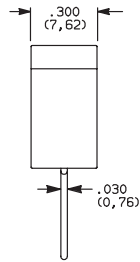
TERMINATIONS

AV VERTICAL RIGHT ANGLE, PC THRU-HOLE

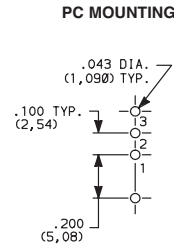


ET01J1AVBE2
Vertical Actuation
SPDT

Actuator Shown In Pos. 1

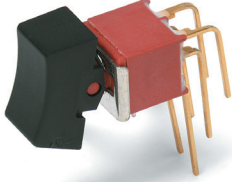


ET02 Models:
Omit terminal 2.



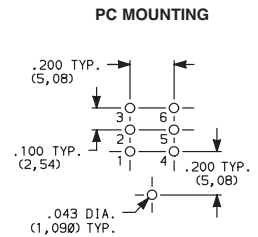
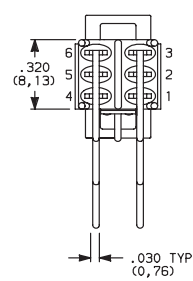
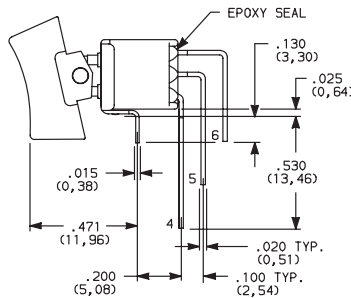
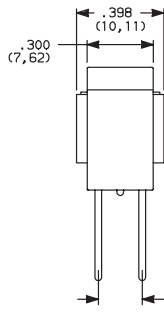
NOTE: Terminal bend radii and lead-in manufacturing option.

AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



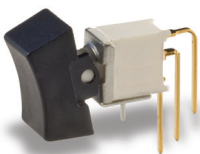
ET21J1AVBE2
Vertical Actuation
DPDT

Actuator Shown In Pos. 1

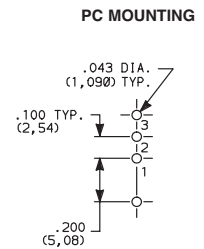
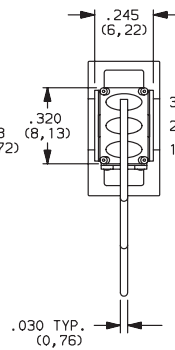
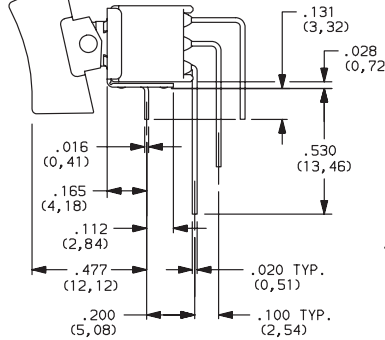
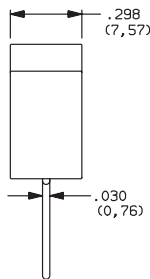


NOTE: Terminal bend radii and lead-in manufacturing option.

AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE



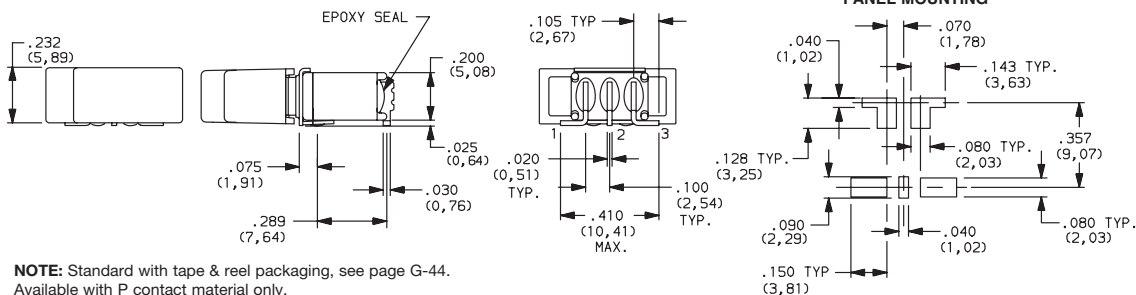
ET01J1AV2BE2
Vertical Actuation
SPDT



ET Series Sealed Subminiature Rocker Switches

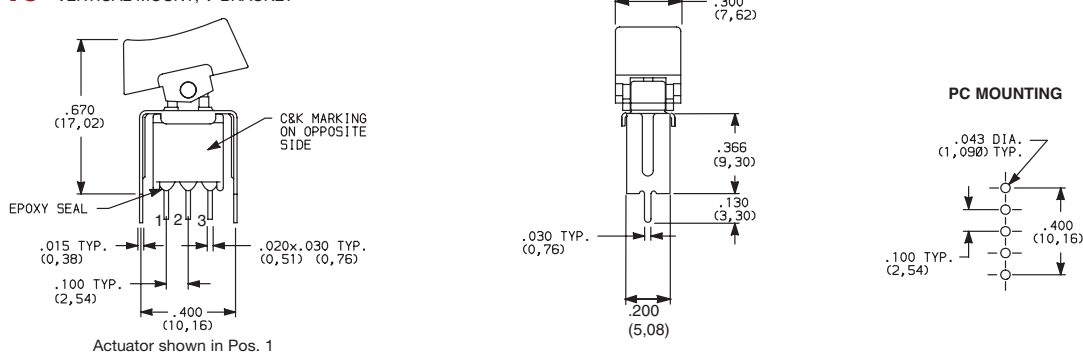
TERMINATIONS

SA RIGHT ANGLE, SURFACE MOUNT



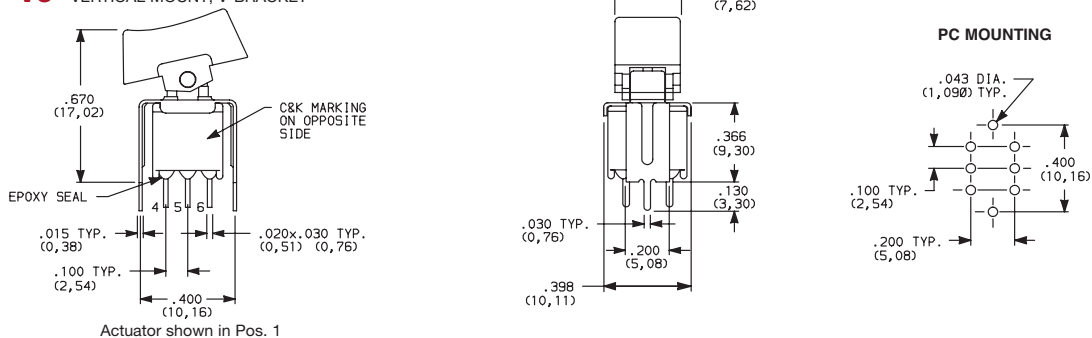
ET01J6SAPE2
Horizontal Actuation
SPDT

V3 VERTICAL MOUNT, V-BRACKET



ET01J1V3BE2
SPDT

V3 VERTICAL MOUNT, V-BRACKET



ET21J1V3BE2
DPDT

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	ETX1 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.
S		MATTE-TIN ⁶		
G	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/DRY CIRCUIT OR POWER	ETX1 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 2 AMPS @ 120 V AC OR 28 V DC.
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.

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

All models  with all options when ordered with G, Q, S & R contact material.



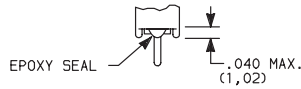
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

ET Series Sealed Subminiature Rocker Switches

SEAL



E EPOXY SEAL



AVAILABLE HARDWARE

J1 Actuator



PART NO.

261A01000 WHITE
261A02263 BLACK
261A03000 RED

Material: Nylon
Finish: Matte

NOT AVAILABLE WITH A, SA,
SA1

J6 Actuator



PART NO.

621C01000 WHITE
621C02263 BLACK
621C03000 RED

Material: Nylon
Finish: Matte

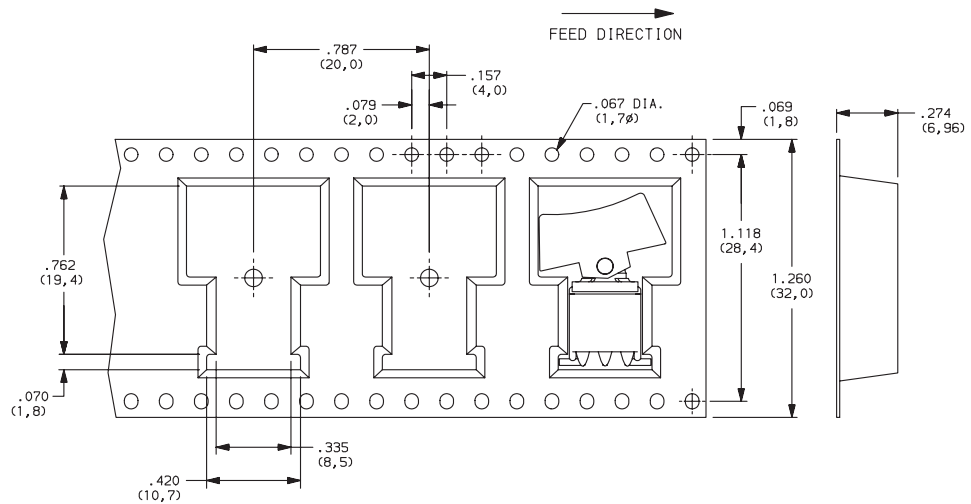
For Hi Temp, Consult Factory

NOTE: Other colors available,
consult Customer Service Center.

TAPE & REEL SA TERMINATION

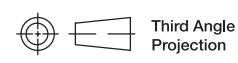
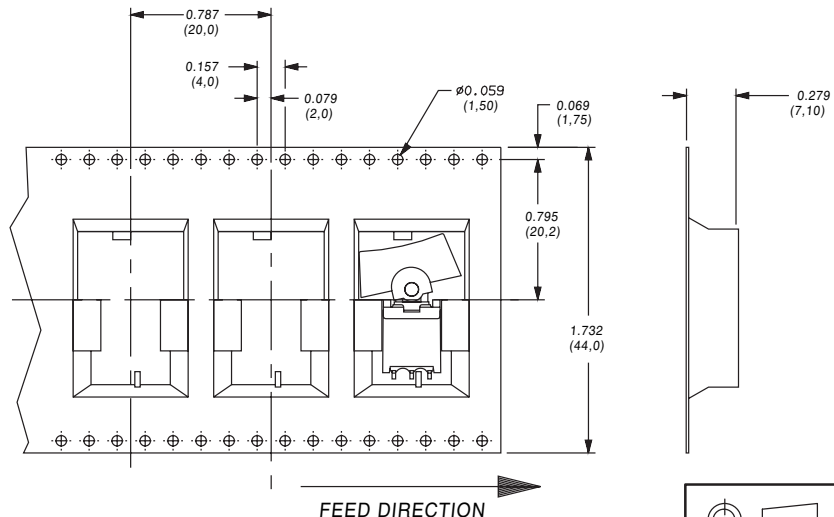
ET01J6SABE (SHOWN)

REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.512 (13,0)
QUANTITY PER REEL	500



ET01J6SA1BE (SHOWN)

REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.795 (20,20)
QUANTITY PER REEL	450



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



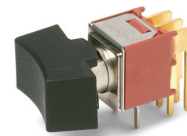
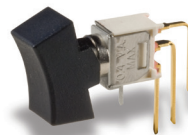
T Series Subminiature Rocker Switches

Features/Benefits

- Compact size—small footprint
- Single and double pole models
- PC and panel mounting options available
- RoHS compliant

Typical Applications

- Telecommunications
- Instrumentation
- Medical Equipment



Models Available

Specifications

CONTACT RATING: Q contact material (TX01 models): 3 AMPS @ 120 V AC or 28 V DC. All other models: 2 AMPS @ 120 V AC or 28 V DC. See page G-49 for additional ratings.

ELECTRICAL LIFE: TX01 models: 60,000 make-and-break cycles at full load. All other models: 30,000 cycles.

CONTACT RESISTANCE: Below 20 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 B, G, P, Q or R 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) or glass filled nylon 4/6, flame retardant, heat stabilized.

ACTUATOR: Nylon, black standard.

BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass, matte-tin plated.

MOUNTING BRACKET: Stainless steel.

END CONTACTS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Coin silver, silver plated. See page G-49 for additional contact materials.

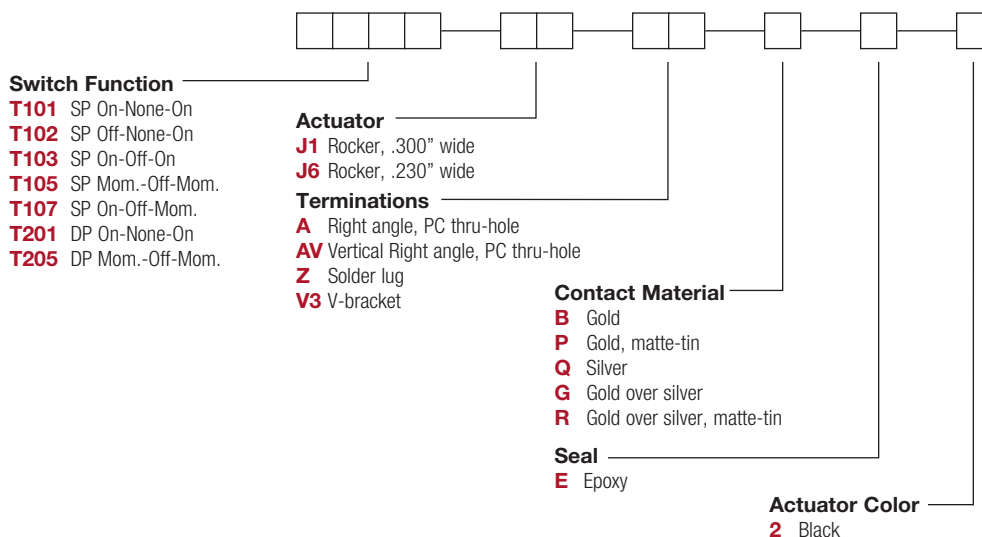
CENTER CONTACTS & TERMINALS: B contact material: Copper alloy, with gold plate over nickel plate. Q contact material: Copper alloy, silver plated. See page G-49 for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut, Screws & 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-46 through G-50. 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.



T Series Subminiature Rocker Switches

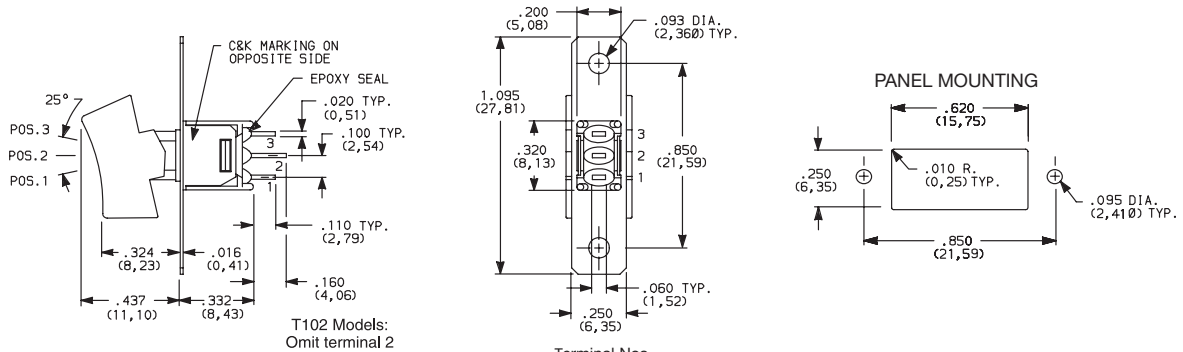
ACTUATOR COLOR

SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	
		C&K marking on opposite side			C&K marking on opposite side			
SP	T101	ON	NONE	ON	2-3	N/A	2-1	
	T103	ON	OFF	ON		OPEN		
	T105	MOM.	OFF	MOM.				
	T107	ON	OFF	MOM.				
	T102	OFF	NONE	ON	OPEN	N/A	3-1	

SPDT



Part number shown: T101J6ZBE2

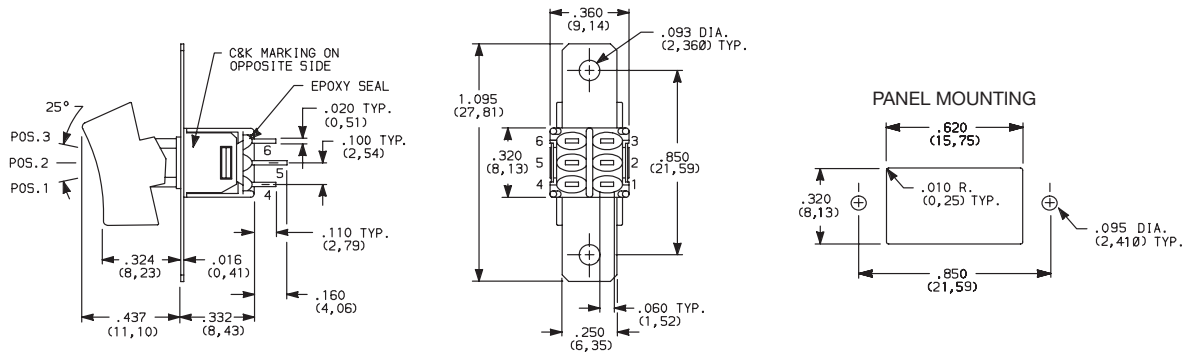
T102 Models:
Omit terminal 2

Terminal Nos.
For Reference Only

DP	T201	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4	
	T205	MOM.	OFF	MOM.		OPEN		

DPDT

DPDT

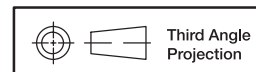


Part number shown: T201J1ZBE2

Terminal Nos.
For Reference Only

MOM. = Momentary

All models with all options when ordered with G, Q or R contact material.

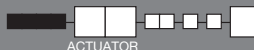


Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

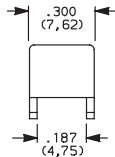
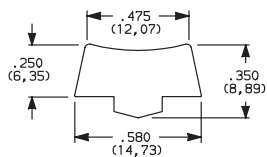


T Series Subminiature Rocker Switches

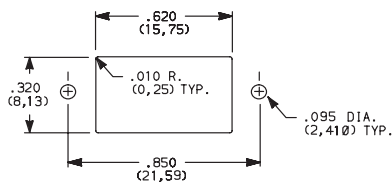
ACTUATOR



J1 ROCKER, .300 WIDE

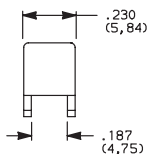
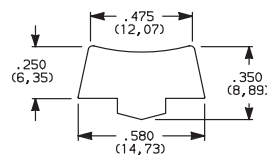


PANEL MOUNTING

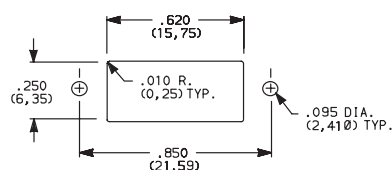


Standard with all models except T10X with A terminations.

J6 ROCKER, .230 WIDE



PANEL MOUNTING



Standard with T10X model with A terminations.

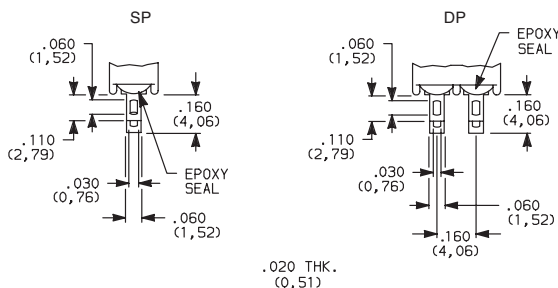
OPTION CODE	ACTUATOR COLOR
2	BLACK

Actuators available separately, see page G 50. Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

TERMINATIONS



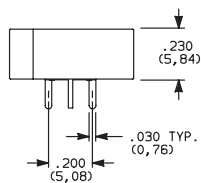
Z SOLDER LUG



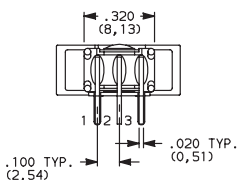
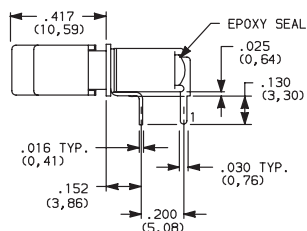
SP and DP

Not available with P or R contact material.

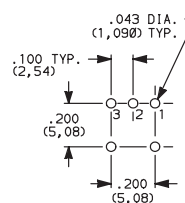
A RIGHT ANGLE, PC THRU-HOLE



Actuator Shown In Pos. 1



PC MOUNTING



T101J6ABE2
Horizontal Actuation
SPDT

Not available with T102 model. J6 actuator standard only on T10X models with A terminations.



Third Angle
Projection

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

Rocker

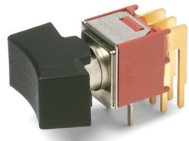
G

C&K

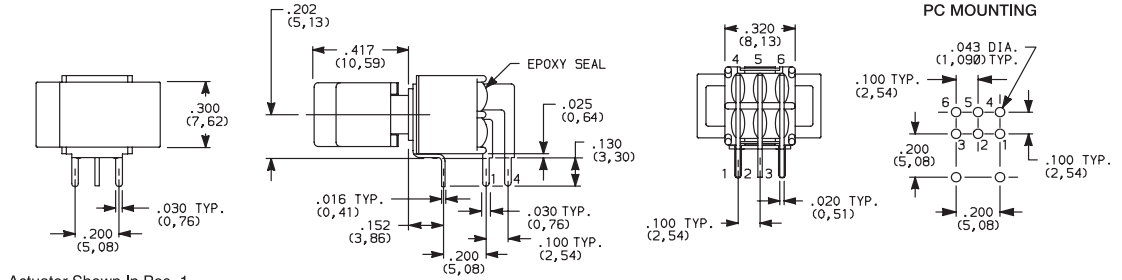
T Series Subminiature Rocker Switches

TERMINATIONS

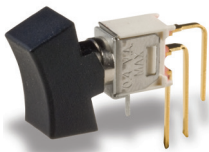
A RIGHT ANGLE, PC THRU-HOLE



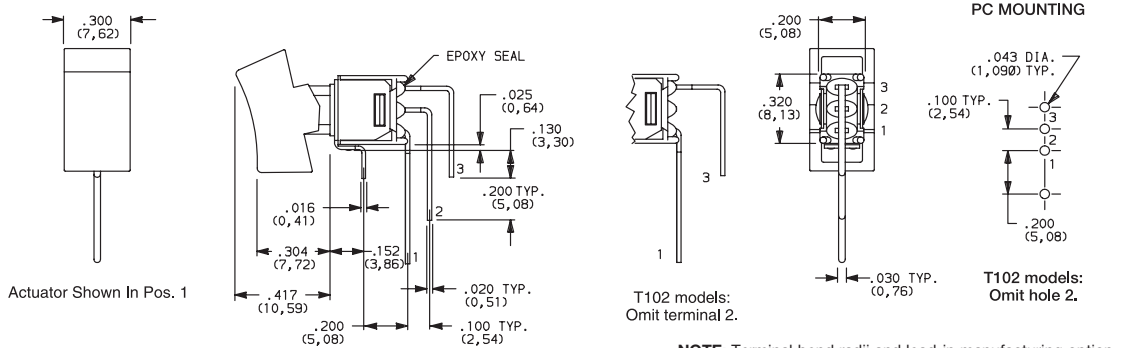
T201J1ABE2
Horizontal Actuation
DPDT



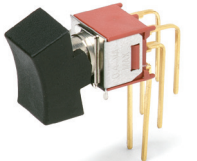
AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



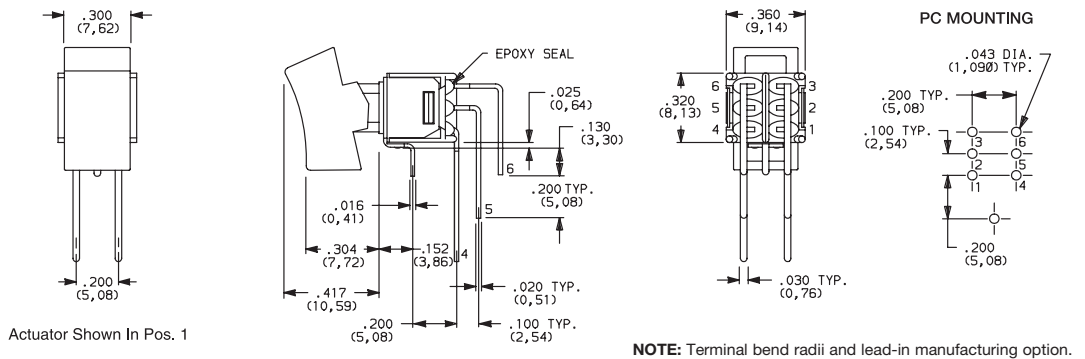
T101J1AVBE2
Vertical Actuation
SPDT



AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



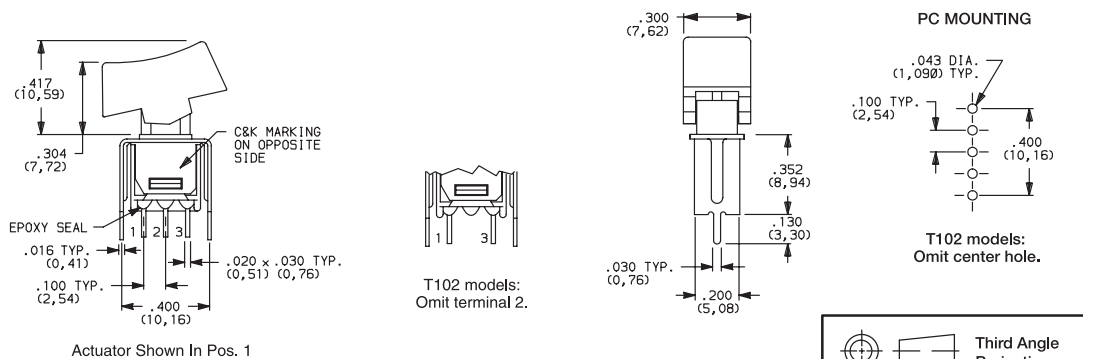
T201J1AVBE2
Vertical Actuation
DPDT



V3 VERTICAL MOUNT, V-BRACKET



T101J1V3BE2
SPDT



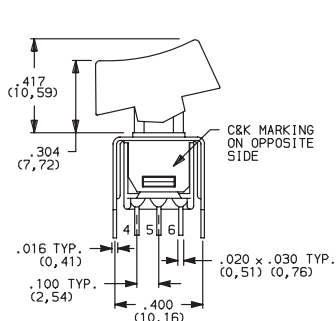
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



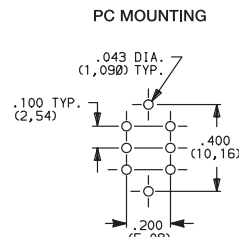
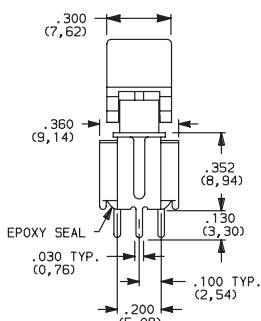
T Series Subminiature Rocker Switches

TERMINATIONS

V3 VERTICAL MOUNT, V-BRACKET



Actuator Shown In Pos. 1



T201J1V3BE2
DPDT

CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
B	GOLD ³	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	TX01 MODELS: 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.
G	GOLD OVER SILVER ^{2,3}	GOLD ³	LOW LEVEL/DRY CIRCUIT OR POWER	TX01 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 3 AMPS @ 120 V AC OR 28 V DC. ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 2 AMPS @ 120 V AC OR 28 V DC.
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.

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

All models with all options when ordered with G, Q, or R contact material.

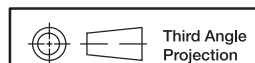
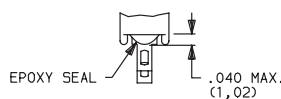
B contact material standard with A, AV, V3 terminations.

Q contact material standard with C & Z terminations.

P & R contact materials not available with Z terminations.

SEAL

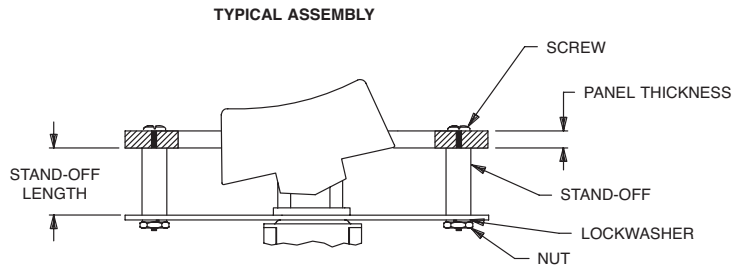
E EPOXY SEAL



T Series Subminiature Rocker 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.



PART NO.	PANEL THK.	STANDOFF LENGTH
761101000	1/16 IN. (1,59)	.295 (7,49)
761102000	3/32 IN. (2,38)	.264 (6,71)
761103000	1/8 IN. (3,18)	.233 (5,92)

NOTE: Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog.

J1 Actuator



PART NO.
468002263 BLACK

Material: Nylon
Finish: Matte

J6 Actuator

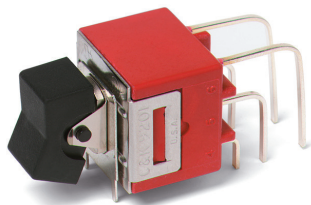


PART NO.
468102263 BLACK

Material: Nylon
Finish: Matte

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

9000 Series Power Rocker and Lever Handle Switches



Features/Benefits

- Thermoset UL 94V-0 housing
- Rugged construction
- Variety of actuator and termination options
- RoHS compliant

Typical Applications

- Small equipment
- Shut-off switch

UL 61058-1



Specifications

CONTACT RATING:

9201 Model:

- GP (general purpose)
- 6 AMPS 125 VAC 50/60 Hz T85 10,000 cycles (10E3)
- 3 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
- R (resistive)
- 6 AMPS 30 VDC T85 10,000 cycles

9221 Model:

- GP (general purpose)
- 10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
- 5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
- R (resistive)
- 10 AMPS 30 VDC T85 10,000 cycles

ELECTRICAL LIFE: 25,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 m Ω typ. initial @ 2–4 V DC, 100 mA.

INSULATION RESISTANCE: 10⁹ Ω min.

DIELECTRIC STRENGTH: 2,500 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).

Materials

CASE: Diallyl phthalate (DAP) (UL 94V-0).

ACTUATOR: Nylon, black standard.

FRAME-REAR MOUNT OPTIONS: Spring steel, black.

BUSHING: Brass, nickel plated.

HOUSING: Stainless steel.

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

MOUNTING BRACKET: Stainless steel.

END CONTACTS: 9201 Model: Coin silver, silver plated.
9221 Model: Silver cadmium oxide.

CENTER CONTACTS: Copper alloy, silver plated

ALL TERMINALS: 9201 Model: Copper alloy, silver plated.
9221 Model: Copper alloy, matte-tin plated.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut, Screw & Lockwasher: Stainless steel. Standoff: Nylon standard, aluminum available, consult Customer Service Center.

*Cadmium used in electrical contacts is acceptable for RoHS.

NOTE: Any models supplied with Q 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.

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-52 through G-55. For additional options not shown in catalog, consult Customer Service Center.



Switch Function

- 9201** DP On-On, 6 Amps
- 9221** DP On-On, 10 Amps

Actuator

- J1** Rocker
- J2** Lever
- J3** Rocker
- J37** Rocker with metal frame

Terminations

- Z** Solder lug (9201 only)
- AV2** Vertical right angle, PC thru-hole (9201 only)
- C** PC Thru-hole (9201 only)
- Z4** Quick connect

Contact Material

- Q** Silver

Seal

- E** Epoxy
- D** No Seal

Actuator Color

- 2** Black
- 1** White
- 3** Red

Frame Color

- 2** Black
- NONE** No frame color required

Rocker



G



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

9000 Series Power Rocker and Lever Handle Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	RATING*	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
			POS. 1	POS. 2	POS. 1	POS. 2	
DP	9201	6 AMPS	ON	ON	2-3,5-6	2-1,5-4	 DPDT
	9221	10 AMPS	ON	ON			

DPDT

Part number shown: 9201J1ZQE2

All 9000 Series models meet international dimensional and electrical requirements.



* See CONTACT MATERIAL, page G-54, for complete ratings.

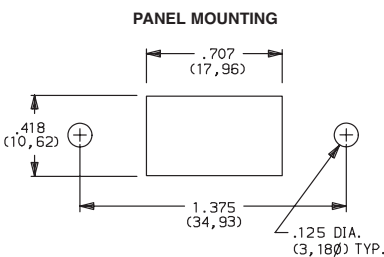
9221 model must be ordered with Z4 terminations and D seal option.

ACTUATOR-PANEL MOUNT

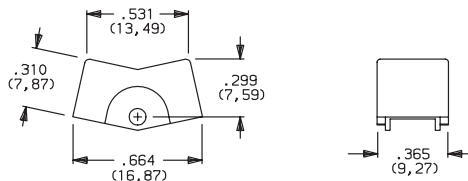
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

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

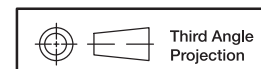
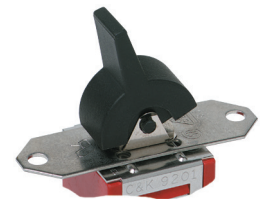
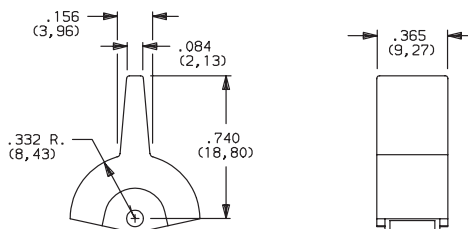
NOTE: Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Actuators available separately, see page G-55. Hardware available separately, see Technical Data section of this catalog.



J1 ROCKER



J2 LEVER



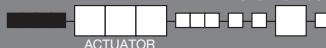
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



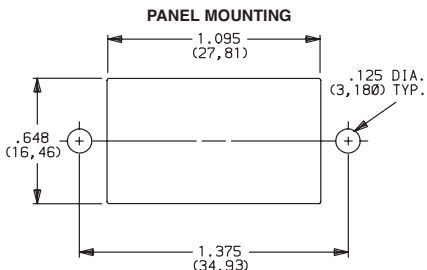
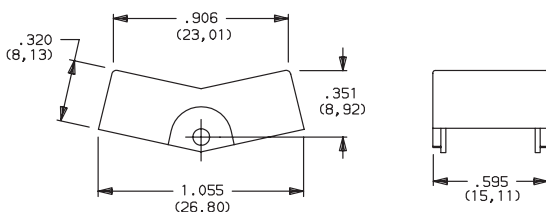
9000 Series Power Rocker and Lever Handle Switches

ACTUATOR-PANEL MOUNT

ACTUATOR COLOR



J3 ROCKER



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

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

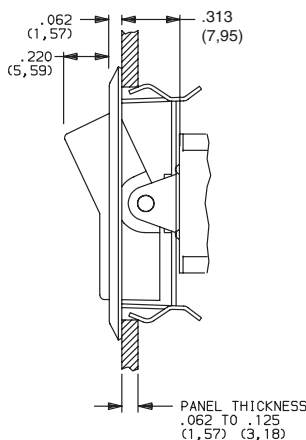
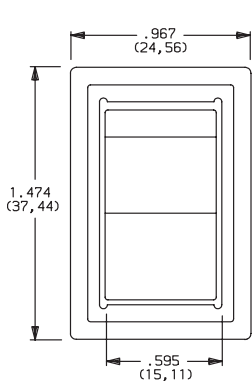
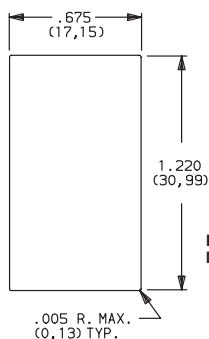
NOTE: Actuators available separately, see page G-55. Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Hardware available separately, see Technical Data section of this catalog.

ACTUATOR-REAR MOUNT

ACTUATOR COLOR



J37 ROCKER WITH METAL FRAME



Not available with AV2 termination.

OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

OPTION CODE	FRAME COLOR
2	BLACK

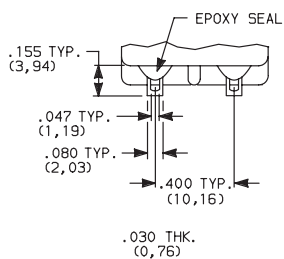
Actuator finish: Matte. Frame finish: Gloss. Other colors, custom actuator markings and legends available, consult Customer Service Center.

NOTE: Actuators & frames available separately, see page G-55. 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 available separately, see Technical Data section of this catalog.

TERMINATIONS

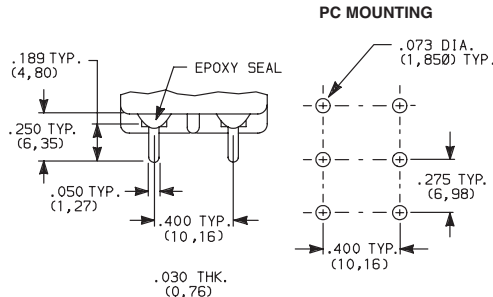


Z SOLDER LUG



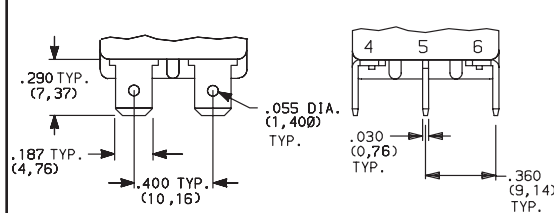
9201 Only

C PC THRU-HOLE



9201 Only

Z4 QUICK CONNECT



9201 and 9221

NOTE: Only termination available with 9221 model. Must be ordered with D seal option. Mating terminal standard Nema .187" quick connect.



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

Rocker



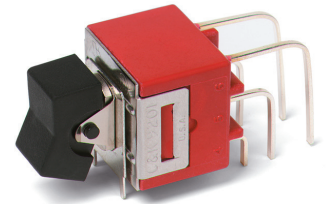
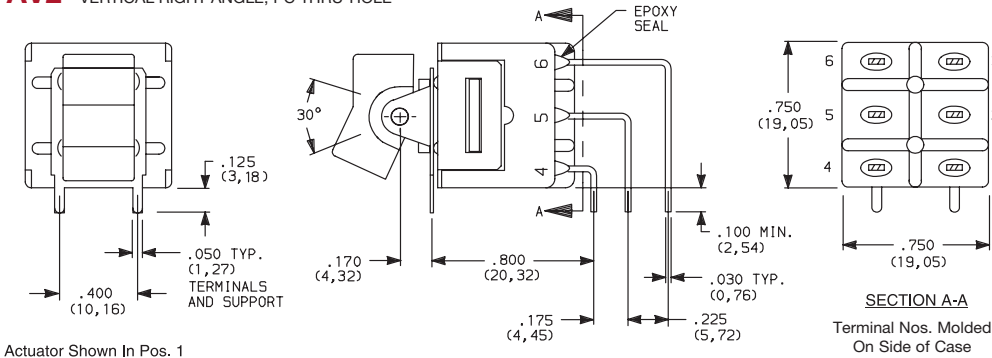
G

C&K

9000 Series Power Rocker and Lever Handle Switches

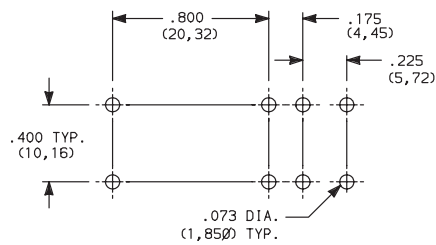
TERMINATIONS

AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE



9201J1AV2QE2
Vertical Actuation
DPDT

PC MOUNTING



9201 Only

NOTE: Terminal bend radii and lead-in manufacturing option.
Terminal spacing greater than 3mm at all points.

CONTACT MATERIAL

OPTION CODE	MODEL	CONTACT MATERIAL	TERMINAL PLATING	RATINGS
Q	9201	SILVER 1,2	SILVER OR TIN 2,5	GP (general purpose) 6 AMPS 125 VAC 50/60 Hz T85 10,000 cycles (10E3) 3 AMPS 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 6 AMPS 30 VDC T85 10,000 cycles
	9221	SILVER CADMIUM OXIDE 3,4,6	TIN 5	GP (general purpose) 10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles 5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles R (resistive) 10 AMPS 30 VDC T85 10,000 cycles

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

- 1 END CONTACTS: Coin silver, silver plated.
- 2 CENTER CONTACTS & ALL TERMINALS: Copper alloy, silver plated.
- 3 END CONTACTS: Silver cadmium oxide.
- 4 CENTER CONTACTS: Copper alloy, silver plated.
- 5 Z4 TERMINALS ONLY: Copper alloy, tin plated.
- 6 Cadmium used for electrical contacts is acceptable for RoHS.

NOTE: Any models supplied with Q contact material is RoHS compliant.

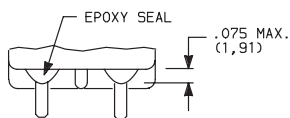
9221 model must be ordered with Z4 terminations and D seal option.

All 9000 Series models meet international dimensional and electrical requirements.



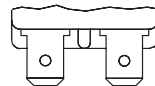
SEAL

E EPOXY SEAL

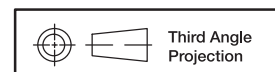


Not available with 9221 model or Z4 terminations.

D NO EPOXY SEAL



Must be ordered with 9221 model and Z4 termination.



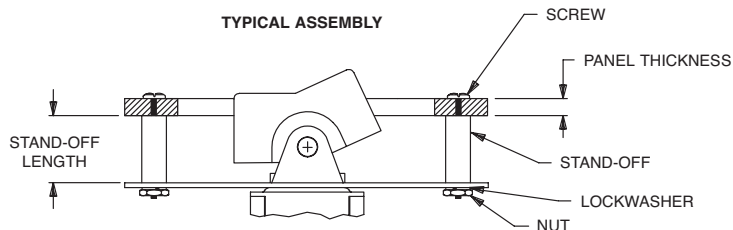
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



9000 Series Power Rocker and 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.



J1 & J2 actuators

PART NO.	PANEL THK.	STANDOFF LENGTH
761101000	1/16 IN. (1,59)	.295 (7,49)
761102000	3/32 IN. (2,38)	.264 (6,71)
761103000	1/8 IN. (3,18)	.233 (5,92)

J1 Actuator



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

Material: Nylon
 Finish: Matte

J2 Actuator



PART NO.
760501000 WHITE
760502263 BLACK
760503000 RED

Material: Nylon
 Finish: Matte

J3, J37 Actuators



PART NO.
766601000 WHITE
766602263 BLACK
766603000 RED

Material: Nylon
 Finish: Matte

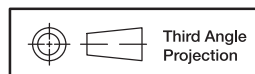
Frame for J37 Actuators



PART NO.
445400746 BLACK ENAMEL
 Material: Spring Steel

NOTE: Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog.

Other colors available, consult Customer Service Center.



DA Series Miniature Single Pole Rocker Switches

Features/Benefits

- Nice actuator styling with multiple options
- Guards to prevent accidental actuation
- Momentary and maintained functions
- IP54 splash proof rubber boot option
- RoHS compliant

Typical Applications

- Small appliances
- Computers and peripherals
- Medical instrumentation



UL US **UL 61058-1**

Specifications

CONTACT RATING:

- 16 AMPS @ 125 VAC, 1/3 HP;
- 10 AMPS @ 250 VAC, 1/2 HP.
- 10 AMPS @ 125 VAC, 6 AMPS @ 250 VAC.

ELECTRICAL LIFE: 10,000 make and break cycles at full load.

INSULATION RESISTANCE: $10^8 \Omega$ min.

DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.

OPERATING TEMPERATURE: -20°C to +85°C

Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, matte finish.

ILLUMINATED ACTUATOR: Polycarbonate, matte finish.

CENTER CONTACTS: Silver plated, copper alloy.

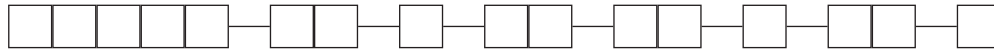
END CONTACTS: Silver plated.

ALL TERMINALS: Silver plated, copper alloy.

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

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-57 through G-60. For additional options not shown in catalog, consult Customer Service Center.



Switch Function

- DA101** SPDT On-None-On
- DA102** SPST On-None-Off
- DA103** SPDT On-Off-On

Actuator

- J1** Rocker
- J2** Two-tone rocker
- *, **J3** Illuminated rocker
- ** J4** Circle, illuminated rocker
- ** J5** Oval, illuminated rocker

Actuator Color

- 1-5** See Chart on Page G-59
- *R** Red, illuminated
- *A** Amber, illuminated
- *G** Green, illuminated

* Actuator "J3" illuminated switches are not available with actuator markings

** Actuator "J3", "J4" and "J5" are not available with Termination option "17" solder lug

Mounting Style/Color

- S2** Snap-in, black
- S1** Snap-in, white
- B2** Recessed snap-in bracket, black
- G2** Guard, black

Termination

- 15** .187" quick connect
- 17** Solder lug
- 02** Thru-hole
- A** Right angle

Actuator Marking

- (NONE)** No marking
- D** ON-OFF
- H** "O I" - international ON-OFF
- N** Large dot
- P** "O -" international ON-OFF

Contact Rating

- QF** Silver

Lamp Rating

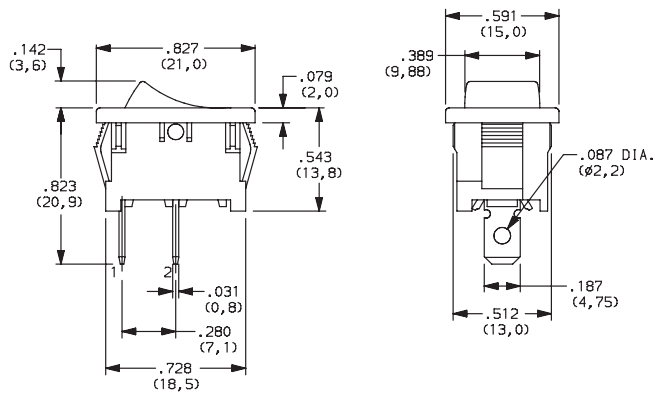
- (NONE)** No lamp
- 6** LED
- 7** 125 VAC neon
- 8** 250 VAC neon

DA Series Miniature Single Pole Rocker Switches

SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		C&K marking on opposite side			C&K marking on opposite side			
SP	DA101	ON	NONE	ON	2-3	N/A	2-1	
	DA102	ON	NONE	OFF				 OR For 7 & 8 Illuminated Versions Only
	DA103	ON	OFF	ON				 For 6 Illuminated Versions Only



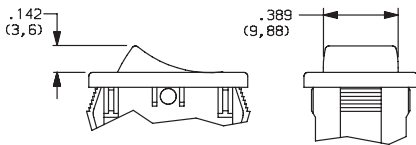
Shown in Pos. 1

ACTUATOR



J1 ROCKER

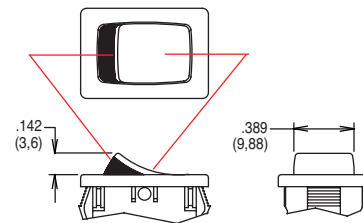
*J3 ILLUMINATED ROCKER



NOTE: J3 actuator available with DA102 switch functions, 7&8 lamp ratings and not available with O2 and A termination options.

* J3 actuator not available with markings or Termination option "17" solder lug

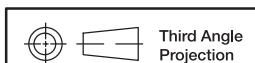
J2 TWO-TONE ROCKER



NOTE:

1. Available with DA102 switch function only.
2. Available with None or P actuator marking options only.

Rocker



Third Angle
Projection

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

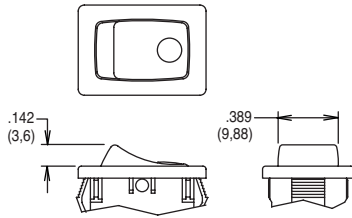


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DA Series Miniature Single Pole Rocker Switches

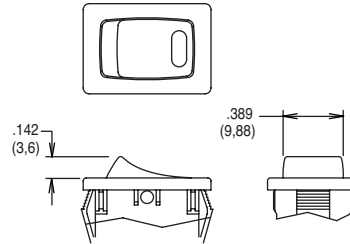
ACTUATOR

J4 CIRCLE, ILLUMINATED ROCKER



NOTE: Available with DA102 switch function and 7 & 8 lamp ratings combinations only. Not available with O2 and A termination options. * J4 actuator not available with Termination option "17" solder lug

J5 OVAL, ILLUMINATED ROCKER

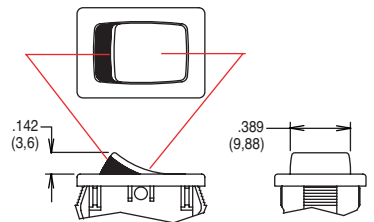


NOTE: Available with DA102 switch function and 6 lamp rating combinations only. Not available with O2 and A termination options. * J5 actuator not available with Termination option "17" solder lug

ACTUATOR COLOR

	OPTION CODE	ACTUATOR COLOR
J1 only	2	BLACK
	1	WHITE
	3	RED
J3, J4, J5 only	R	RED, ILLUMINATED
	A	AMBER, ILLUMINATED
	G	GREEN, ILLUMINATED

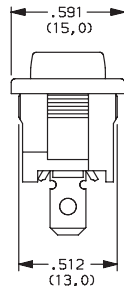
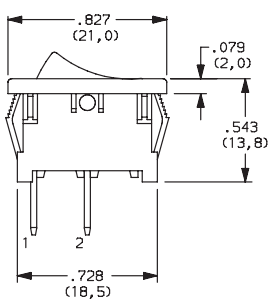
	OPTION CODE	ACTUATOR COLOR TOP	ACTUATOR COLOR BOTTOM
J2 only	1	WHITE	RED
	2	WHITE	BLACK
	3	RED	WHITE
	4	BLACK	WHITE
	5	BLACK	RED



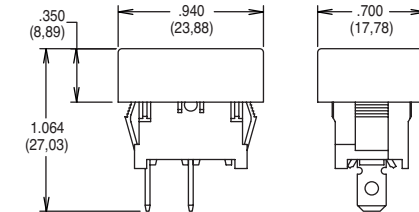
MOUNTING STYLE/COLOR

S2 SNAP-IN, BLACK

S1 SNAP-IN, WHITE

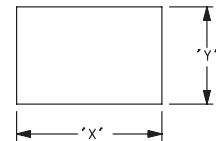


G2 GUARD, BLACK



NOTE: Available with DA10X switch functions only.

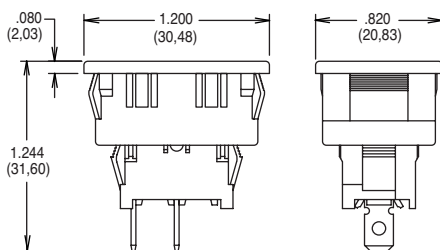
S2, S1 & G2 PANEL MOUNTING



PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	0.756-.004 (19,2-0,1)	0.512+.004 (13,0+0,1)
0.049-0.079 (1,25-2,0)	0.764-.004 (19,4-0,1)	0.512+.004 (13,0+0,1)
0.079-0.118 (2,0-3,0)	0.779-.004 (19,8-0,1)	0.512+.004 (13,0+0,1)

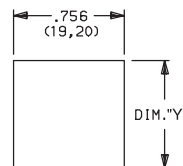
Actuator shown in Pos. 1

B2 RECESSED SNAP-IN BRACKET, BLACK



NOTE: Available with DA10X switch functions only.

B2 PANEL MOUNTING



PANEL THICKNESS	"Y"
0.030-0.049 (0,75-0,25)	1.068 (27,13)
0.049-0.079 (1,25-2,0)	1.076 (27,33)
0.079-0.118 (2,0-3,0)	1.092 (27,74)



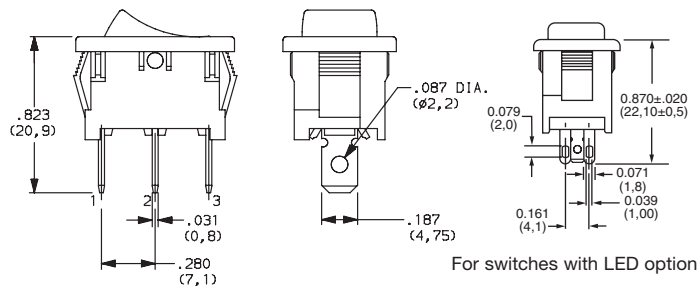
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



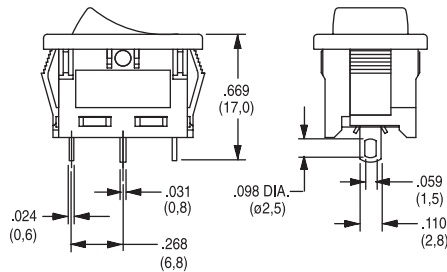
DA Series Miniature Single Pole Rocker Switches

TERMINATION

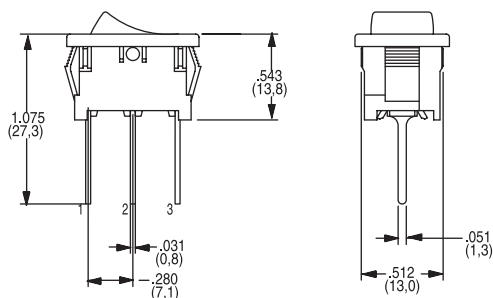
15 .187" QUICK CONNECT



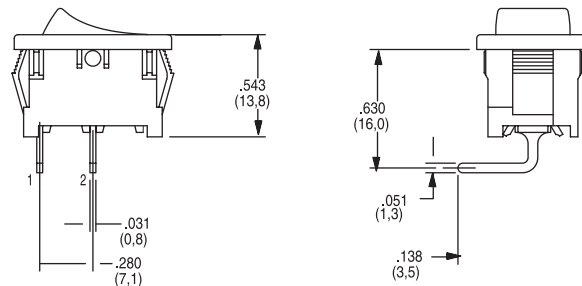
17 SOLDER LUG



02* THRU-HOLE



A* RIGHT ANGLE



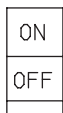
* NOTE - O2 and A termination options not offered with J3, J4 or J5 actuator options.

ACTUATOR MARKING

NONE NO MARKING



D ON-OFF



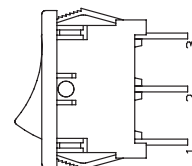
H O I



N LARGE DOT



P O -



All models shown in Pos. 1
Markings not available with J3 actuator

NOTE: Orientation of actuator marking and terminals.

CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
QF	SILVER	POWER	16 AMPS @ 125 VAC; 1/3 HP; 10 AMPS @ 250 VAC; 1/2 10 AMPS @ 125 VAC, 6 AMPS @ 250 VAC

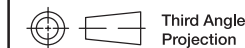
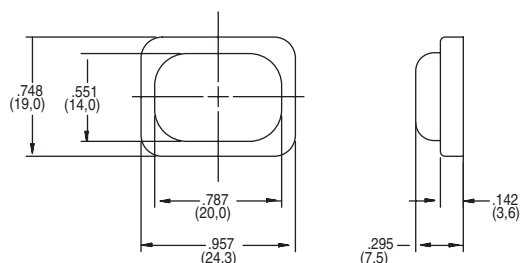
* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

LAMP RATING

- (NONE) NO LAMP
- 6 LED RATING @ 10 mA $V_f=1.85V$
- 7 125 VAC 33kΩ NEON
- 8 250 VAC 150kΩ NEON

ACCESSORIES

216C00000 IP54 SPLASH PROOF RUBBER BOOT



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

D Series Miniature Snap-in Power Rocker Switches

Features/Benefits

- Momentary and maintained models
- PC and quick connect terminals
- Recessed bracket available — prevents accidental actuation
- RoHS compliant
- Gold plated options available

Typical Applications

- Small appliances
- Computers and peripherals
- Medical instrumentation



UL 61058-1



Specifications

CONTACT RATING:

D101, D102, D103, D105, D108, D201, D202, D203

GP (general purpose)

4 AMPS 125 VAC 50/60 Hz T85 10,000 cycles

2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles

R (resistive)

4 AMPS 30 VDC T85 10,000 cycles

D501, D502, D503, D508, D601, D602, D608

GP (general purpose)

10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles

5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles

R (resistive)

10 AMPS 30 VDC T85 10,000 cycles

0.4VA @ 20V AC/DC (gold plating) available upon request

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

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

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

Materials

ACTUATOR & HOUSING: 6/6 nylon (UL 94V-2), color black, finish: matte.

MOVABLE CONTACTS: D10X and D20X Models: Copper, silver plated. D50X and D60X Models: Coin silver, silver plated.

STATIONARY CONTACTS AND TERMINALS: Copper or brass, silver plated. Gold plating available.

CONTACT SPRING: Music wire or stainless steel.

OPERATING TEMPERATURE: -30°C to +65°C

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

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-61 through G-65. For additional options not shown in catalog, consult Customer Service Center.



Switch Function

- D101** SPDT, On-None-On
- D102** SPST, On-None-Off
- D103** SPDT, On-Off-On
- D105** SPDT, Mom.-Off-Mom.
- D108** SPDT, Mom.-None-On
- D201** DPDT, On-None-On
- D202** DPST, On-None-Off
- D203** DPDT, On-Off-On
- D501** SPDT, On-None-On
- D502** SPST, On-None-Off
- D503** SPDT, On-Off-On
- D508** SPDT, Mom.-None-On
- D601** DPDT, On-None-On
- D602** DPST, On-None-Off
- D608** DPDT, Mom.-None-On

Actuator

- J1** Rocker
- J5** Lever

Actuator Color

- 2** Black
- 1** White
- 3** Red

Mounting Style/Color

- S2** Snap-in, black
- B2** Recessed snap-in actuator guard, black
- G2** Actuator guard, black
- S1** Snap-in, white

Terminations

- 15** Quick connect
- A** Right angle, PC thru-hole
- 02** PC Thru-hole
- 05** Twisted quick connect
- 06** Extended PC thru-hole
- 17** Wirable quick connect

Actuator Markings

- NONE** No marking
- D** ON-OFF
- H** O I
- N** Large dot
- P** O -
- R** Red rectangle on end
- U** Large dot on end

Contact Material

- QA** Silver
- Gold plating options available contact Customer Service



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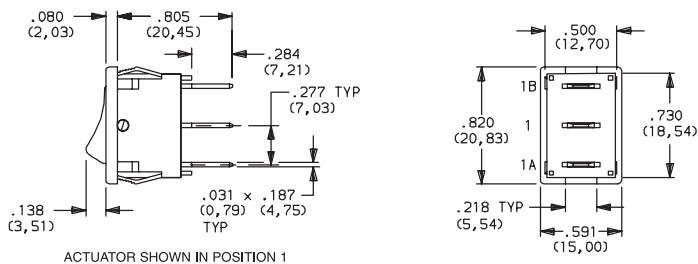


D Series Miniature Snap-in Power Rocker Switches

SWITCH FUNCTION

NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC		
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3			
SP	D102	4	ON	NONE	OFF	1-1A	N/A	OPEN			
	D502	10									
	D101	4	ON	NONE	ON			1-1B	1-1B		
	D501	10									
	D103	4		OFF							
	D503	10									
D105	4	MOM.	OFF	MOM.							
D108	4	MOM.	NONE	ON							
	D508	10									

SPDT



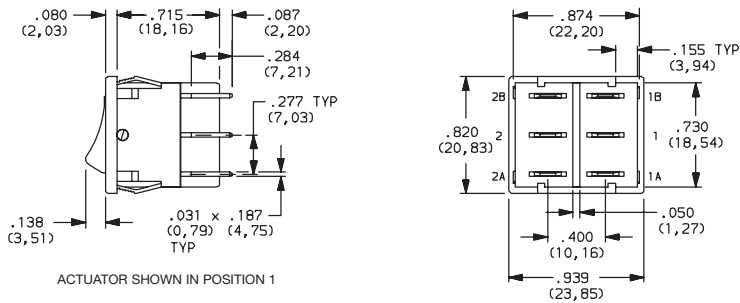
ACTUATOR SHOWN IN POSITION 1

TERMINAL NOS. FOR REF. ONLY

Part number shown: D101J12S215QA

DP	D202	4	ON	NONE	OFF	1-1A, 2-2A	N/A	OPEN			
	D602	10									
	D201	4	ON	NONE	ON			1-1B, 2-2B	1-1B, 2-2B		
	D601	10									
	D203	4		OFF							
	D603	10									
D208	4	MOM.	NONE								
D608	10										

DPDT



ACTUATOR SHOWN IN POSITION 1

TERMINAL NOS. FOR REF. ONLY

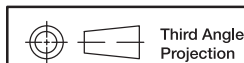
MOM. = Momentary

*AMP RATING: see G-60

See CONTACT MATERIALS, page G-64.



Rocker



Third Angle Projection

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

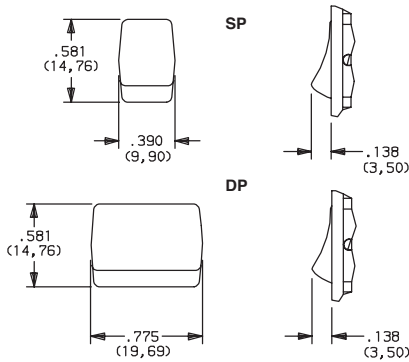


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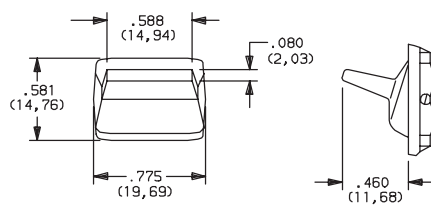
D Series Miniature Snap-in Power Rocker Switches



J1 ROCKER



J5 LEVER



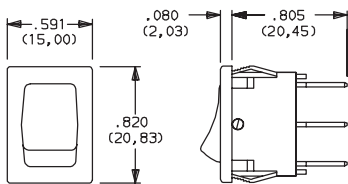
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED

NOTE: Actuator finish: matte. Other colors available, consult Customer Service Center.

'J5' actuator available only with DP models D201, D202, D601 and D602.

MOUNTING STYLE/COLOR

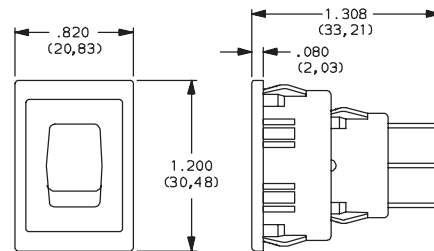
S SNAP-IN



OPTION CODE	HOUSING COLOR
2	(STD.) BLACK
1	WHITE

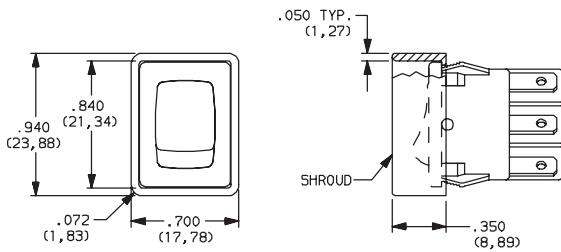
NOTE: Frame finish on housing: matte. Other colors available, consult Customer Service Center.

B2 RECESSED SNAP-IN ACTUATOR GUARD, BLACK



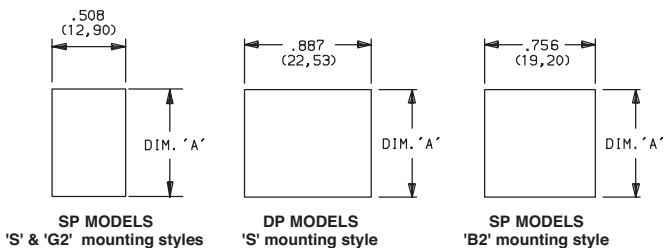
NOTE: Vertical mount, SP models only.

G2 ACTUATOR GUARD, BLACK



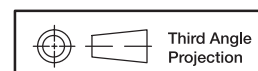
NOTE: Vertical mount, SP models only.

PANEL MOUNTING



PANEL THICKNESS	DIM 'A' SP & DP MODELS 'S' MOUNTING STYLE	DIM 'A' WITH 'G2' OPTION SP MODELS ONLY	DIM 'A' SP MODELS 'B' MOUNTING STYLE
.030-.049 (0,76) (1,24)	.756 (19,20)	.764 (19,41)	1.068 (27,13)
.049-.079 (1,24) (2,01)	.764 (19,41)	.780 (19,81)	1.076 (27,33)
.079-.118 (2,01) (3,00)	.780 (19,81)	n/a	1.092 (27,74)

NOTE: Blank insert available for SP models only, see page G-64.



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



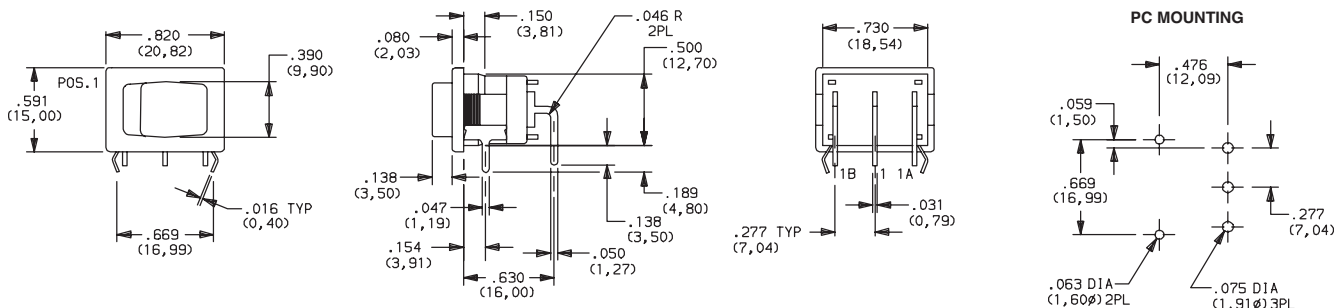
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D Series Miniature Snap-in Power Rocker Switches

TERMINATIONS

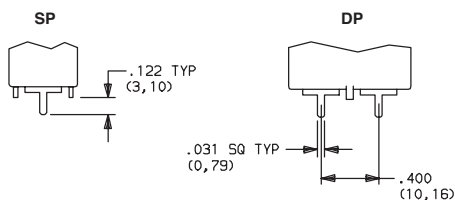
A RIGHT ANGLE, PC THRU-HOLE



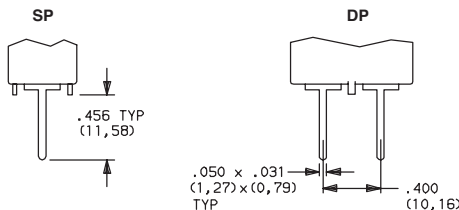
Available with D101, D102, D501, D502 SP models only.

TERMINATIONS

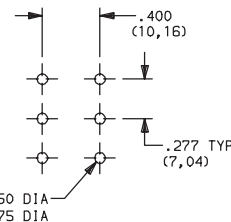
02 PC THRU-HOLE



06 EXTENDED PC THRU-HOLE



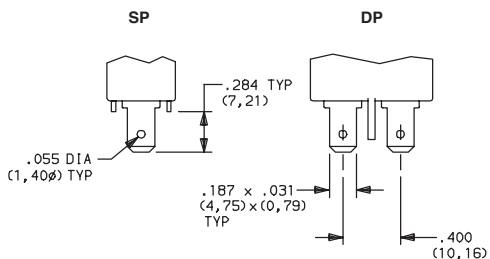
PC MOUNTING (02 and 06)



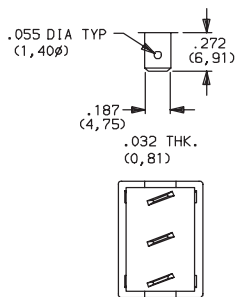
Available with DX01 and DX02 models only.

Available with DX01 and DX02 models only.

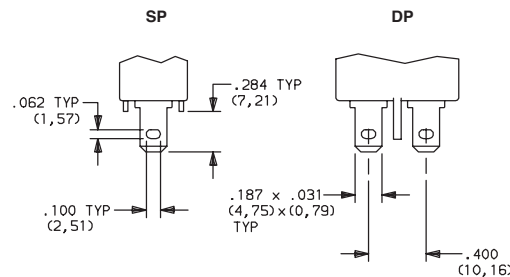
15 QUICK CONNECT



05 TWISTED QUICK CONNECT



17 WIRABLE QUICK CONNECT



Available with DX01 and DX02 models only.

NOTE: Terminals are twisted.

Available with DX01 and DX02 models only.

ACTUATORS

NONE NO MARKING

D ON-OFF

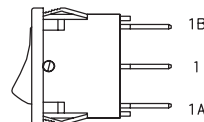
H O |

N LARGE DOT

P O -

R RED RECTANGLE ON END

U LARGE DOT ON END



'D, H, P & U' marking options: marking color white, standard for all actuator colors except white. Black marking color, standard for white actuators. 'R & N' marking option: red marking color, standard. Consult Customer Service Center for other available marking colors.

NOTE: Orientation of actuator markings and terminals.



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

Rocker

G

C&K

15 May 20

G-64

www.ckswitches.com

D Series Miniature Snap-in Power Rocker Switches

CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS
QA	SILVER 1	D101, D102, D103, D105, D108, D201, D202, D203
		GP (general purpose) 4 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
		2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
		R (resistive) 4 AMPS 30 VDC T85 10,000 cycles
		D501, D502, D503, D508, D601, D602, D608
		GP (general purpose) 10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
		5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
		R (resistive) 10 AMPS 30 VDC T85 10,000 cycles

¹MOVABLE CONTACT: D10X and D20X MODELS: Copper, silver plated.
D50X and D60X MODELS: Coin silver, silver plated.

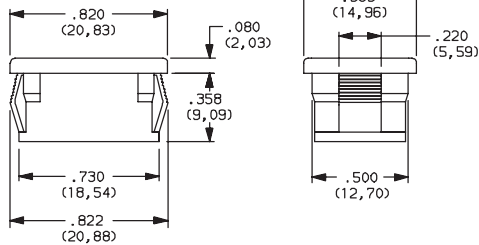


0.4VA @ 20V AC/DC Gold plated options available contact Customer Service.

STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

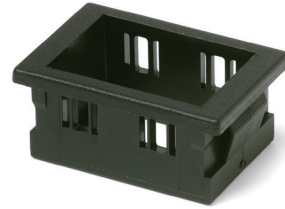
AVAILABLE HARDWARE

Insert
SP Only



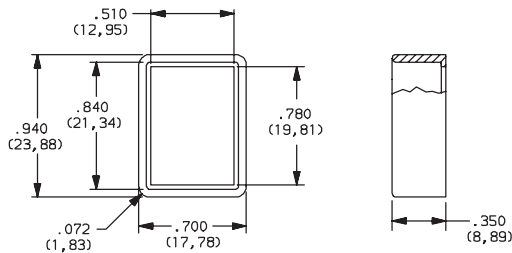
PART NO.
057190200 BLACK
Material: Nylon 6/6
Finish: Matte

Recessed Actuator Guard,
SP Only



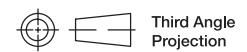
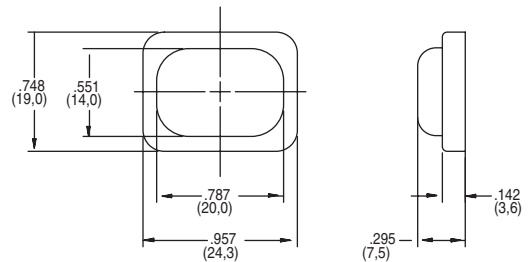
599D02000 BLACK
Material: 6/6 Nylon
Finish: Matte

Actuator Guard



PART NO.
104C22000
Material: PBT thermoplastic
Finish: Matte

PART NO.
216C00000 IP54 SPLASH PROOF RUBBER BOOT



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



15 May 20



DM Series Miniature 2 Pole Power Rocker Switches



Features/Benefits

- 3 AMPS to 10 AMPS
- Quick connect terminals
- Double pole in miniature size
- Recessed bracket available—prevents accidental actuation
- RoHS compliant

Typical Applications

- Computers
- Appliances
- Electric tools

UL 61058-1



Specifications

CONTACT RATING:

DM21, DM22:

GP (general purpose)

3 AMPS 125 VAC 50/60 Hz T85 10,000 cycles

2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles

R (resistive)

3 AMPS 30 VDC T85 10,000 cycles

DM61, DM62:

GP (general purpose)

10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles

5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles

R (resistive)

10 AMPS 30 VDC T85 10,000 cycles

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

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

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

OPERATING TEMPERATURE: -20°C to +65°C

Materials

HOUSING & ACTUATOR: 6/6 nylon (UL94V-2), black.

MOVABLE CONTACTS: DM2X Models: Copper, silver plated.

DM6X Models: Coin silver, silver plated.

STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

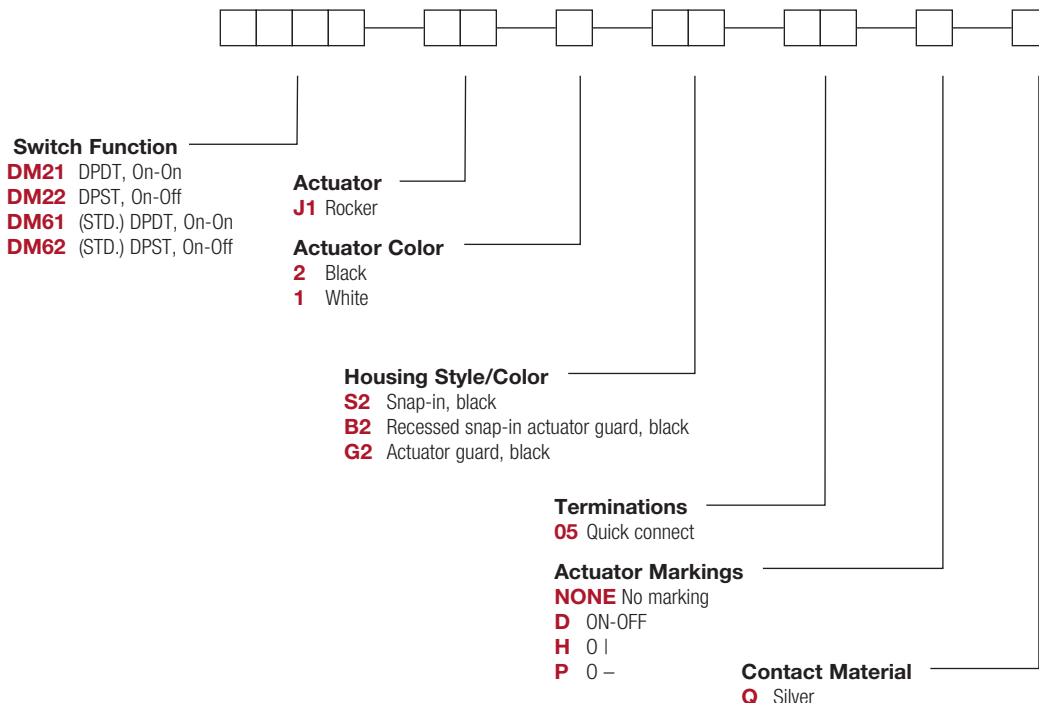
CONTACT SPRING: Music wire or stainless steel.

NOTE: Any models supplied with Q contact material are RoHS compliant.

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

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-66 and G-69. For additional options not shown in catalog, consult Customer Service Center.



DM Series Miniature 2 Pole Power Rocker Switches

SWITCH FUNCTION



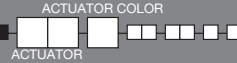
NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
			POS. 1	POS. 2	POS. 1	POS. 2	
DP	DM22	3	ON	OFF	1-1A, 2-2A	OPEN	
	DM62	10	ON	OFF	1-1A, 2-2A	OPEN	
	DM21	3	ON	ON	1-1A, 2-2A	1-1B, 2-2B	
	DM61	10	ON	ON	1-1A, 2-2A	1-1B, 2-2B	
<p>DPDT</p> <p>PART NUMBER SHOWN: DM21J1XS205Q</p> <p>NOTES 1. ACTUATOR SHOWN IN POSITION 1-'ON' POSITION</p>							

RATINGS: See page G-65 for complete ratings.

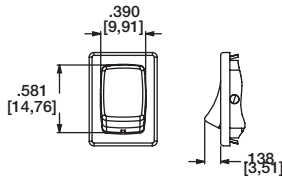


UL 61058-1 tested to 30C temperature rise @ 6,000 cycles.

ACTUATOR



J1 ROCKER



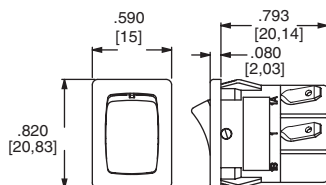
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE

NOTE: Actuator finish: matte. Other colors available, consult Customer Service Center.

HOUSING STYLE/COLOR

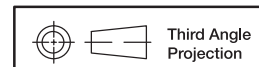
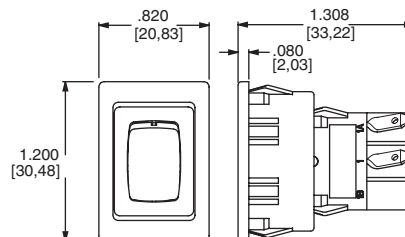


S2 SNAP-IN, BLACK



NOTE: Housing finish: matte. Other colors available, consult Customer Service Center.

B2 RECESSED SNAP-IN ACTUATOR GUARD, BLACK



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



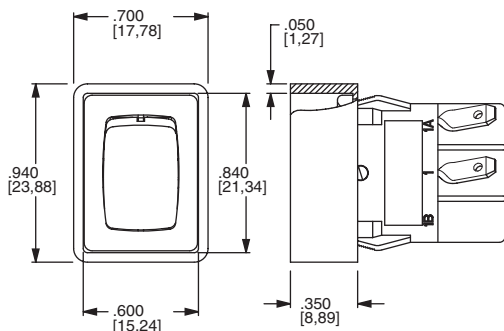
15 May 20



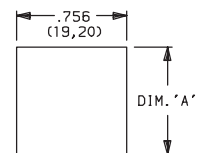
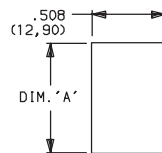
DM Series Miniature 2 Pole Power Rocker Switches

HOUSING STYLE/COLOR

G2 ACTUATOR GUARD, BLACK



PANEL MOUNTING



'S2' & 'G2' housing styles

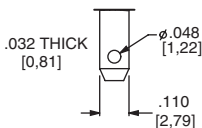
'B2' housing style

NOTE: Blank insert available for SP models only, see page H-76.

PANEL THICKNESS	DIM 'A' 'S2' & 'G2' HOUSING STYLES	DIM 'A' 'G2' OPTION SP MODELS ONLY	DIM 'A' 'B2' HOUSING STYLES
.030-.049 (0,76) (1,24)	.756 (19,20)	0.764 (19,41)	1.068 (27,13)
.049-.079 (1,24) (2,01)	.764 (19,41)	0.780 (19,81)	1.076 (27,33)
.079-.118 (2,01) (3,00)	.780 (19,81)	n/a	1.092 (27,74)

TERMINATIONS

05 QUICK CONNECT



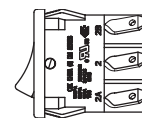
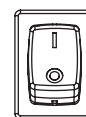
ACTUATOR MARKINGS

NONE NO MARKING

D ON-OFF

H O I

P O -



NOTE: Orientation of actuator markings and terminals.

'D' & 'P' marking options: marking color white, standard for all actuator colors except white actuators. Black marking color standard for white actuators. Consult Customer Service Center for other available marking colors.

CONTACT MATERIAL

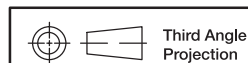
OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS		
Q	SILVER 1,2	DM21, DM22:	GP (general purpose)	3 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
			R (resistive)	2 AMPS 250 VAC 50/60 Hz T85 10,000 cycles
		DM61, DM62:	GP (general purpose)	3 AMPS 30 VDC T85 10,000 cycles
			R (resistive)	10 AMPS 125 VAC 50/60 Hz T85 10,000 cycles
			5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles	
			10 AMPS 30 VDC T85 10,000 cycles	

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

¹ MOVABLE CONTACT: DM2X Models: Copper, silver plated.
DM6X Models: Coin silver, silver plated.

² STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

NOTE: Any models supplied with Q contact material are RoHS compliant.



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

Rocker

G

C&K

15 May 20

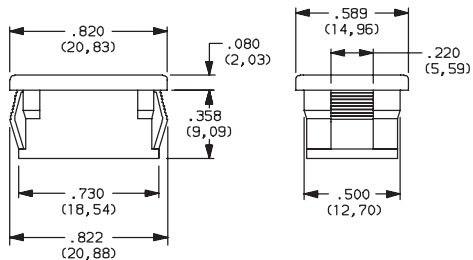
G-68

www.ckswitches.com

DM Series Miniature 2 Pole Power Rocker Switches

AVAILABLE HARDWARE

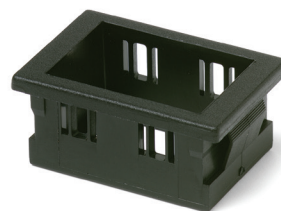
Insert



PART NO.
057190200

Material: Nylon 6/6
Finish: Matte

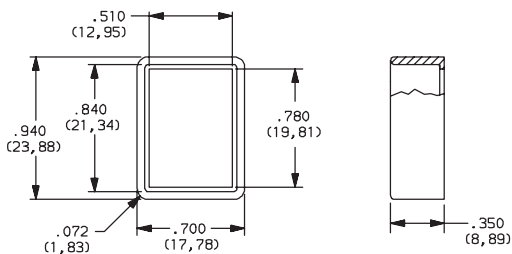
Recessed Actuator Guard



PART NO.
599D02000

Material: 6/6 Nylon
Finish: Matte

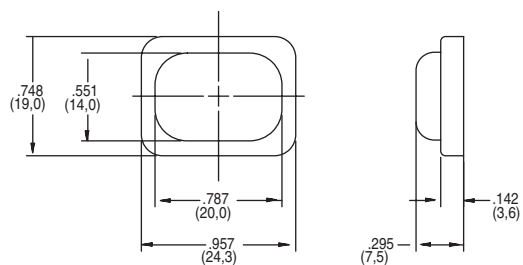
Actuator Guard



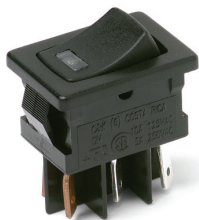
PART NO.
104C22000

Material: PBT thermoplastic
Finish: Matte

PART NO.
216C00000 IP54 SPLASH PROOF RUBBER BOOT



DM Series Miniature Illuminated Power Rocker Switches



Features/Benefits

- 3 AMPS to 10 AMPS
- Illuminated LED
- Positive detent
- RoHS compliant

Typical Applications

- Instrumentation
- Industrial
- Office machines



Specifications

CONTACT RATING:

DM14 and DM24 Models:

GP (general purpose)

3 AMPS @ 125 V AC; 2 AMPS @ 250 V AC.

R (resistive)

3 AMPS 30 VDC 10,000 cycles

DM54 and DM64 Models:

GP (general purpose)

10 AMPS @ 125 V AC; 5 AMPS @ 250 V AC (UL).

R (resistive)

10 AMPS 30 VDC 10,000 cycles

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

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

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

Materials

HOUSING: 6/6 nylon (UL94V-2), black.

ACTUATOR: 6/6 nylon (UL94V-2), black.

MOVABLE CONTACTS: DM14 and DM24 Models: Copper, silver plated. DM54 and DM64 Models: Coin silver, silver plated.

STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

LED TERMINALS: Brass, unplated.

CONTACT SPRING: Music wire or stainless steel.

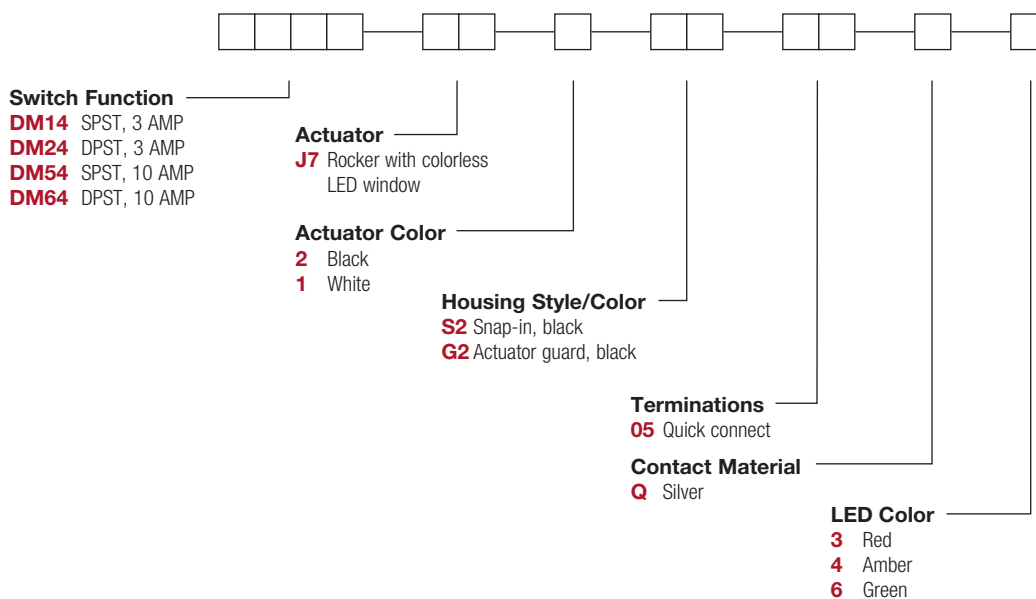
OPERATING TEMPERATURE: -20°C to +65°C

NOTE: Any models supplied with Q contact material are RoHS compliant.

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

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-70 and G-73. For additional options not shown in catalog, consult Customer Service Center.



DM Series Miniature Illuminated Power Rocker Switches

SWITCH FUNCTION



NO. POLES	MODEL NO.	AMP RATING*	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
			POS. 1	POS. 2	POS. 1	POS. 2	
SP	DM14	3	ON	OFF	1-1A	OPEN	
	DM54	10					
DP	DM24	3	ON	OFF	1-1A, 2-2A	OPEN	
	DM64	10					

DPDT

Actuator shown in pos. 1 - 'ON' position.
SPST MODELS (DM14 & DM54) OMIT TERMINALS 2 & 2A.

Part number shown: DM24J72S205Q3

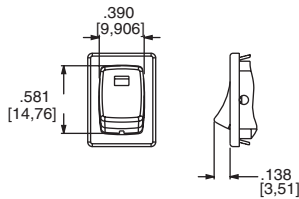
* RATINGS: see page G-69.



ACTUATOR



J7 ROCKER WITH COLORLESS LED WINDOW



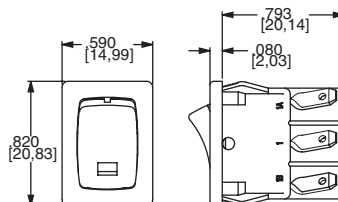
OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE

NOTE: Other colors available, consult Customer Service Center.

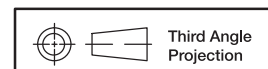
HOUSING STYLE/COLOR



S2 SNAP-IN, BLACK



NOTE: Housing finish: matte. Other colors available, consult Customer Service Center.



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



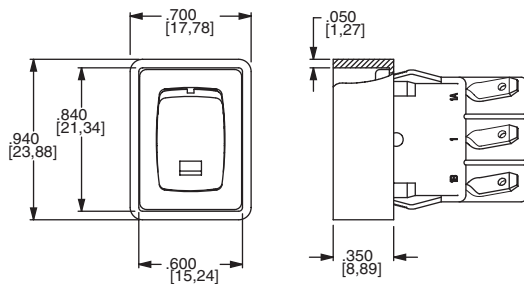
15 May 20



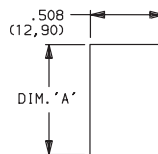
DM Series Miniature Illuminated Power Rocker Switches

HOUSING STYLE/COLOR

G2 ACTUATOR GUARD, BLACK



PANEL MOUNTING



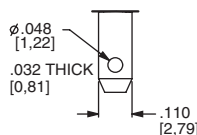
'S2' & 'G2' housing style

NOTE: Blank insert available for SP models only, see page H-80.

PANEL THICKNESS	DIM 'A' 'S2' & 'G2' HOUSING STYLES	DIM 'A' with 'G2' option SP MODELS ONLY
.030-.049 (0,76) (1,24)	0.756 (19,20)	0.764 (19,41)
.049-.079 (1,24) (2,01)	0.764 (19,41)	0.780 (19,81)
.079-.118 (2,01) (3,00)	.780 (19,81)	n/a

TERMINATIONS

05 QUICK CONNECT



CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS			
Q	SILVER 1,2	POWER	DM14, DM24:	GP (general purpose)	3 AMPS @ 125 V AC; 2 AMPS @ 250 V AC.
				R (resistive)	3 AMPS 30 VDC 10,000 cycles
			DM54, DM64:	GP (general purpose)	10 AMPS @ 125 V AC; 5 AMPS @ 250 V AC.
				R (resistive)	10 AMPS 30 VDC 10,000 cycles

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

¹ MOVABLE CONTACTS: DM14 and DM24 models: Copper, silver plated.
DM54 and DM64 models: Coin silver, silver plated.

² STATIONARY CONTACTS & TERMINALS: Copper or brass, silver plated.

NOTE: Any models supplied with Q contact material are RoHS compliant.



LED COLOR

OPTION CODE	LED COLOR	FORWARD V _{FD}	CURRENT I _{LED}	REVERSE V _R	INTENSITY M _{CD}	RECOMMENDED RESISTOR @ VOLTAGE		
						5V	12V	24V
3	Red	2.1	10	4V	1.6 typ.	270	1K	2.2K
4	Amber	2.2	20	4V	2.5 typ.	150	510	1.2K
6	Green	2.1	20	4V	2.0 typ.	150	510	1.2K



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

Rocker

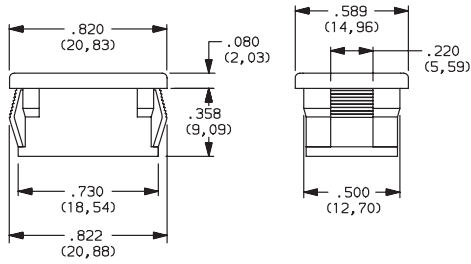


15 May 20

DM Series Miniature Illuminated Power Rocker Switches

AVAILABLE HARDWARE

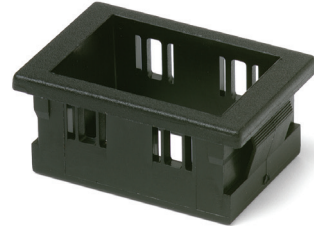
Blank Insert



PART NO.
057190200

Material: Zinc nylon 6/6
Finish: Matte

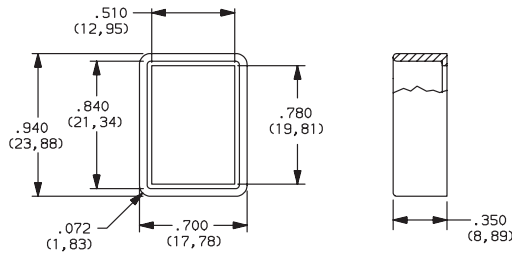
Recessed Bracket



PART NO.
599D02000

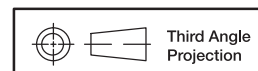
Material: 6/6 Nylon
Finish: Matte

Actuator Guard



PART NO.
104C22000

Material: PBT thermoplastic
Finish: Matte



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

DF Series Power Rocker Switches



Features/Benefits

- Power switching up to 16 AMPS
- Sub-panel and Front-panel mounting
- PC and quick connect terminals
- Multi-position and multi-pole function
- RoHS compliant

Typical Applications

- Computers
- Power supplies
- Appliances
- Fitness equipment
- Off-road vehicles



Specifications

CONTACT RATING: 16 AMPS @ 125, 250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC; 6 AMPS @ 48 V DC, 2 AMPS @ 60 V DC, 11 AMPS @ 30 V DC

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

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

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

OPERATING TEMPERATURE: -20°C to +85°C

Materials

HOUSING & ACTUATOR: 6/6 nylon (UL 94V-2), black, finish: matte.

CONTACTS: Fine silver, silver plated.

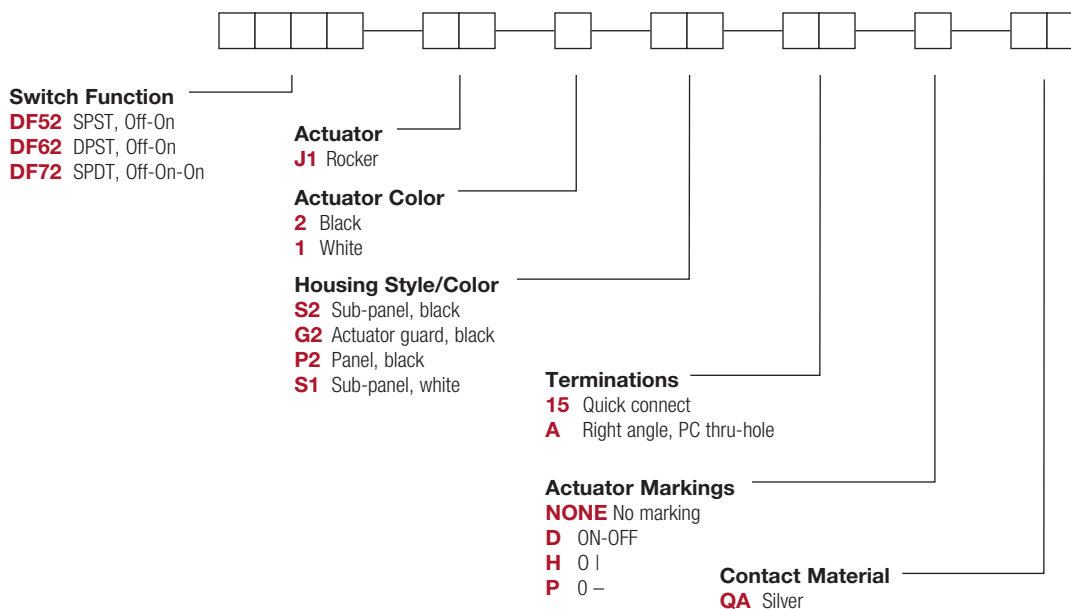
TERMINALS: Copper, silver plated.

CONTACT SPRING: Music wire or stainless steel.

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

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-74 thru G-76. For additional options not shown in catalog, consult Customer Service Center.



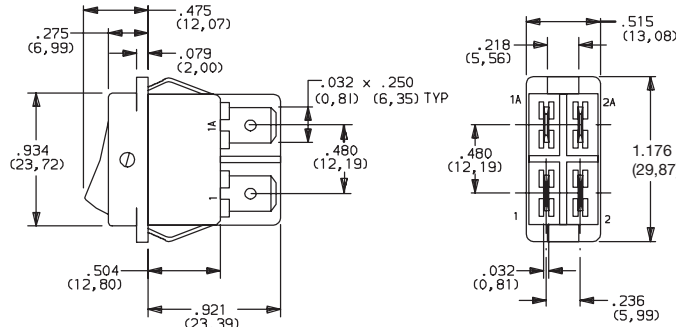
DF Series Power Rocker Switches

SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS. 1	POS. 2	POS. 1	POS. 2	
SP	DF52	OFF	ON	OPEN	1-1A	SPST
DP	DF62	OFF	ON	OPEN	1-1A, 2-2A	DPST

Part Number shown DF62J12S215QA

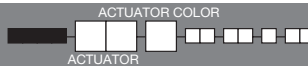


Actuator shown in Pos. 1

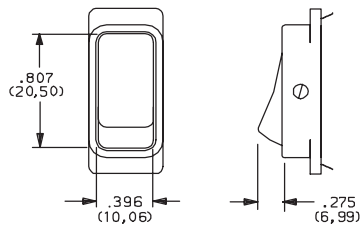
NO. POLES	MODEL NO.	POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3	SCHEMATIC
SP	DF72	OFF	ON	ON	OPEN	1 / 2-2A	1 / 2-1A 1 / 2-2A	POS. 1: POS. 2: POS. 3:

All models

ACTUATOR

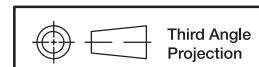


J1 ROCKER



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE

NOTE: Actuator finish: matte. Other colors available, consult Customer Service Center.



Third Angle
Projection

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

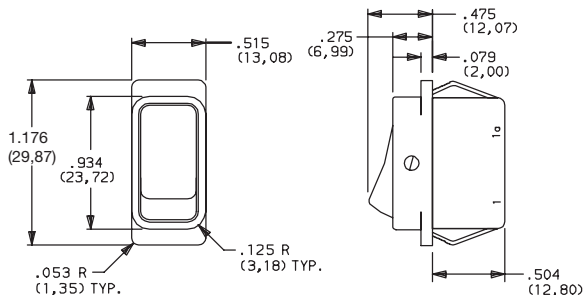


DF Series Power Rocker Switches

HOUSING STYLE/COLOR

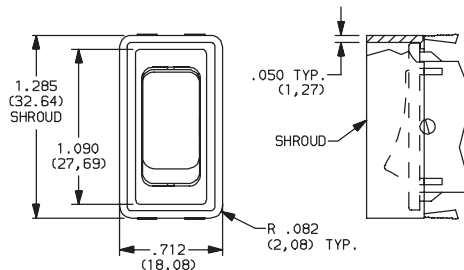


S SUB-PANEL



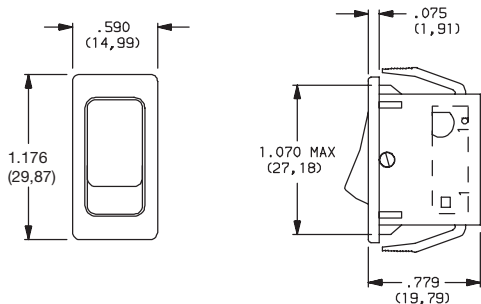
NOTE: DF52 & DF62 models only.

G2 ACTUATOR GUARD



NOTE: Not available with 'A' termination. Available in black only.

P PANEL



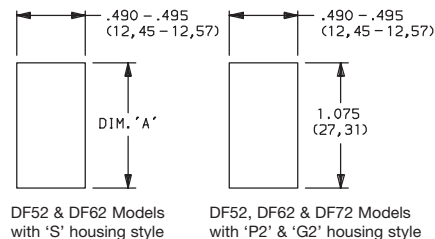
NOTE: Not available with 'A' termination. Available in black only.

OPTION CODE	HOUSING COLOR
2	(STD.) BLACK
1	WHITE

NOTE: Housing finish: matte. Other colors available, consult Customer Service Center.

PANEL MOUNTING

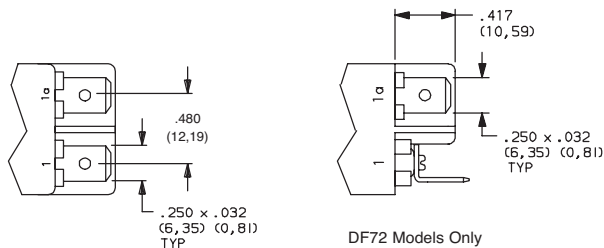
PANEL THICKNESS	DIM 'A'
.029-.048 (0,74) (1,22)	1.021 (25,93)
.048-.078 (1,22) (1,98)	1.029 (26,14)
.078-.117 (1,98) (2,97)	1.045 (26,54)
.075-.140 (1,91) (3,56)	1.075 (27,31)



TERMINATIONS

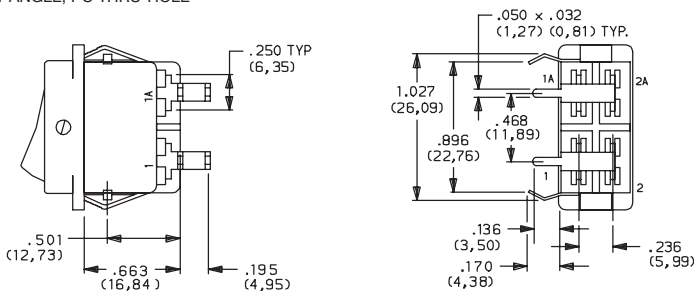


15 QUICK CONNECT



DF72 Models Only

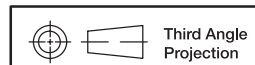
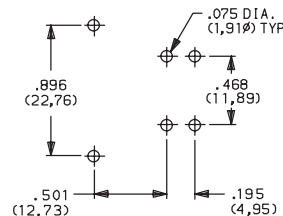
A RIGHT ANGLE, PC THRU-HOLE



Actuator shown in Pos. 1

NOTE: DF52 and DF62 Models Only

PC MOUNTING



Third Angle Projection

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

DF Series Power Rocker Switches

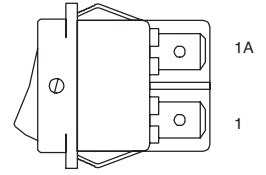
ACTUATOR MARKINGS

NONE NO MARKING

D ON-OFF

H O |

P O -



NOTE: Orientation of actuator markings and terminals.

'D, H, & P' marking options: marking color white, standard for all actuator colors except white. Marking color black, standard for white actuators. Consult Customer Service Center for other available marking colors.

CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
QA	SILVER ^{1,2}	POWER	16 AMPS @ 125, 250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC; 6 AMPS @ 48 V DC (UL), 2 AMPS @ 60 V DC, 11 AMPS @ 30 V DC
			16 AMPS @ 125, 250 V AC; 1/4 HP @ 125 V AC; 1/2 HP @ 250 V AC (UL)

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

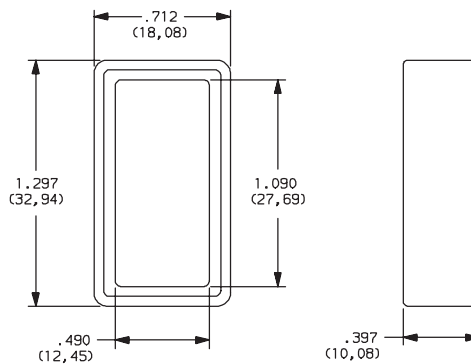
¹ CONTACTS: Fine silver, silver plated.

All models 

² TERMINALS: Copper, silver plated.

AVAILABLE HARDWARE

Actuator Guard

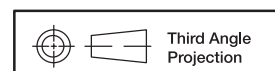


PART NO.

285B02000

Material: Nylon 6/6

Finish: Matte



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

C&K



CR Series Round Single Pole Specialty Rocker Switches

Features/Benefits

- Round actuator and body
- Nice styling
- Multiple illuminated versions available
- IP65 splash proof rubber boot option

Typical Applications

- Appliances, small and large
- Office equipment
- Computers and peripherals
- Audio/Video equipment
- RoHS compliant



UL US UL 61058-1

Specifications

CONTACT RATING:

16 AMPS @ 125 VAC, 10 AMPS @ 250 VAC.

16 AMPS @ 125 VAC, 10 AMPS @ 250 VAC.

ELECTRICAL LIFE: 10,000 make and break cycles at full load.

INSULATION RESISTANCE: $10^8 \Omega$ min.

DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.

OPERATING TEMPERATURE: -20°C to + 85°C

Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), matte finish.

ILLUMINATED ACTUATOR: Polycarbonate, matte finish.

CENTER CONTACTS: Silver plated, copper alloy.

END CONTACTS: Silver plated $AgSnO_2InO_3$.

ALL TERMINALS: Silver plated, copper alloy.

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

Build-A-Switch

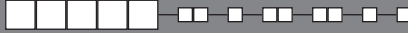
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-78 through G-80. For additional options not shown in catalog, consult Customer Service Center.

Switch Function	_____								
CR101	SPDT On-None-On								
CR102	SPST On-None-Off								
Actuator	_____								
J1	Rocker								
J2*	Two-tone rocker								
J3	Illuminated rocker								
J4**	Circle, illuminated rocker								
J5	Oval, illuminated rocker								
JN	Paddle, rocker								
JP	Paddle, illuminated rocker								
Actuator Color	_____								
2	Black								
1	White								
3	Red								
R	Red, illuminated								
A	Amber, illuminated								
G	Green, illuminated								
Mounting Style/Color	_____								
S2	Snap-in, black								
S1	Snap-in, white								
Termination	_____								
15	.187" quick connect								
Contact Rating	_____								
QF	Silver								
Lamp Rating	_____								
(NONE)	No lamp								
6	LED								
7	125 VAC neon								
8	250 VAC neon								

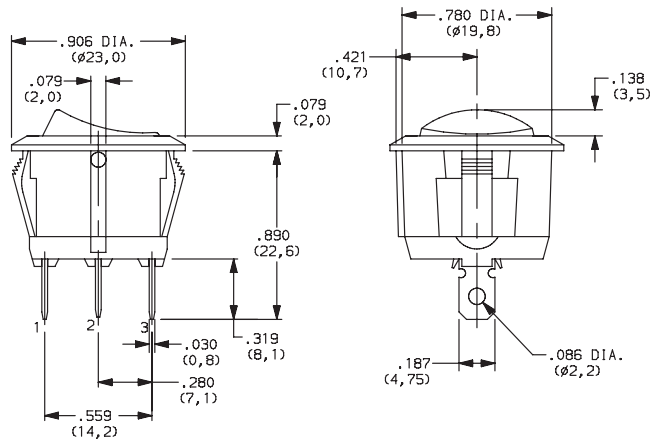
* Refer to table on page G-79 for actuator options.

CR Series Round Single Pole Specialty Rocker Switches

SWITCH FUNCTION



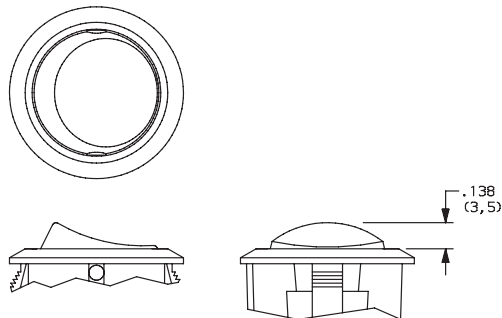
NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		Pos. 1	Pos. 2	Pos. 3	Pos. 1	Pos. 2	Pos. 3	
	CR101	ON	NONE	ON	2-3		2-1	
	CR102	ON	NONE	OFF		N/A		
SP								



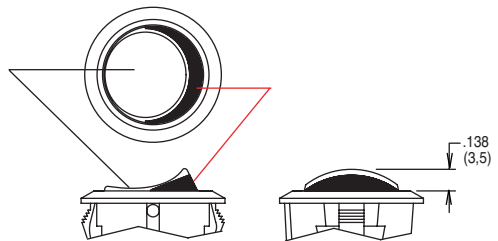
ACTUATOR



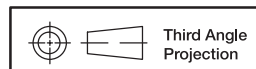
- J1** ROCKER
- J3** ILLUMINATED ROCKER



- J2** TWO-TONE ROCKER



NOTE: J3 actuator available with the combination of 7 & 8 lamp ratings and CR102 switch function only.



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

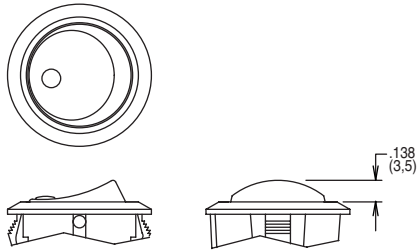


Round Single Pole Specialty Rocker Switches

ACTUATOR

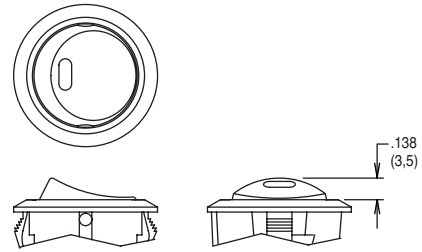


J4 CIRCLE, ILLUMINATED ROCKER



NOTE: Available with the combination of CR102 switch function and 7 & 8 lamp ratings only.

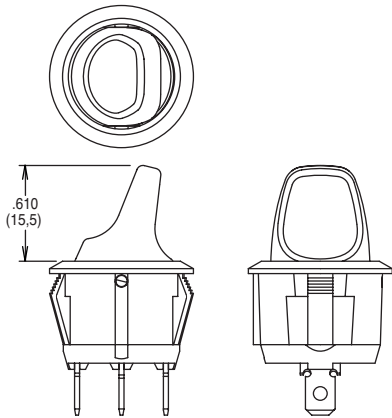
J5 OVAL, ILLUMINATED ROCKER



NOTE: Available with the combination of CR102 switch function and 6 lamp rating only.

JN PADDLE, ROCKER

JP PADDLE, ILLUMINATED ROCKER



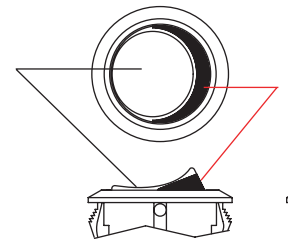
NOTE: JP actuator available with the combination of CR102 switch function and 7 & 8 lamp ratings only.

ACTUATOR COLOR



ACTUATOR	OPTION CODE	ACTUATOR COLOR
J1	2	BLACK
	1	WHITE
	3	RED
J3, J4, J5, JP	R	RED, ILLUMINATED
	A	AMBER, ILLUMINATED
	G	GREEN, ILLUMINATED

ACTUATOR	OPTION CODE	ACTUATOR COLOR	
		TOP	BOTTOM
J2	1	WHITE	RED
	2	WHITE	BLACK
	3	RED	WHITE
	4	BLACK	WHITE
	5	BLACK	RED



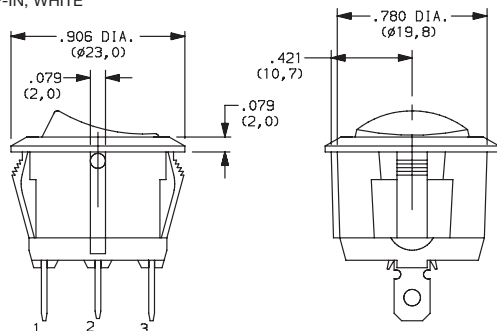
J2 actuator only

MOUNTING STYLE/COLOR

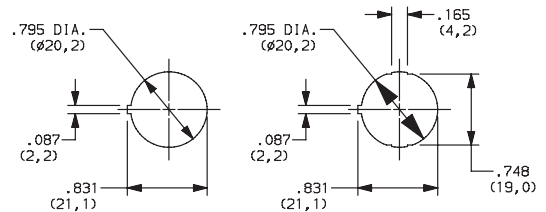


S2 SNAP-IN, BLACK

S1 SNAP-IN, WHITE



PANEL MOUNTING



Panel thickness:
2.0 - 3.0 mm

Panel thickness:
0.7 - 3.0 mm



Dimensions are shown: Inches (mm)

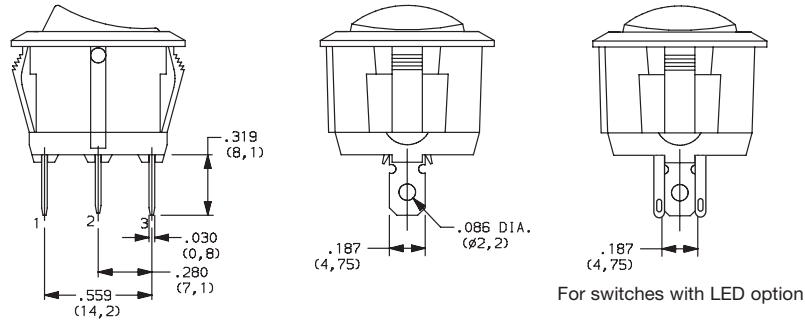
Specifications and dimensions subject to change

CR Series Round Single Pole Specialty Rocker Switches

TERMINATION



15 .187" QUICK CONNECT



CONTACT MATERIAL



OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
		QF	SILVER

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

LAMP RATING



(NONE) NO LAMP

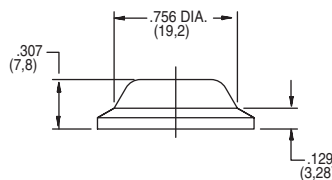
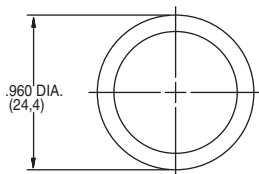
6 LED RATING @ 10 mA $V_f=1.85V$

7 125 VAC 33kΩ NEON

8 250 VAC 150kΩ NEON

ACCESSORIES

377C00000 IP65 SPLASH PROOF RUBBER BOOT



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

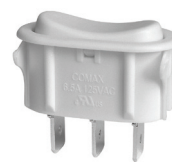


Features/Benefits

- Various designs up to 16 amps
- Heavy duty and extended life cycles
- SPST, SPDT and DPST options
- Different symbols available

Typical Applications

- Household appliances
- Industrial equipment
- Audio & visual equipment
- Telecommunication
- Office equipment



Specifications

CONTACT RATING: 6.5 Amps @ 125 VAC
 ELECTRICAL LIFE: 6,000 cycles at full load.
 INITIAL CONTACT RESISTANCE: 100m Ω min.
 INSULATION RESISTANCE: 100M Ω min.
 DIELECTRIC STRENGTH: 1,500 VAC (50-60 Hz)
 OPERATING FORCE: ON_OFF: 250 \pm 100 gf
 OFF_ON: 700 \pm 250 gf
 PACKAGING: 300 pieces per bag (5 trays)
 2,400 pieces per box

Materials

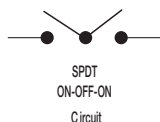
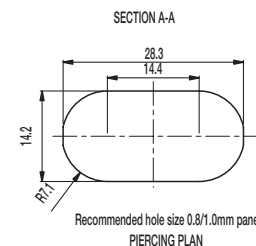
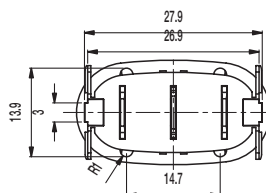
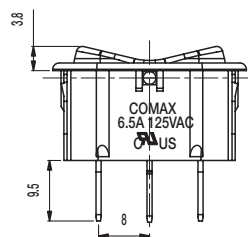
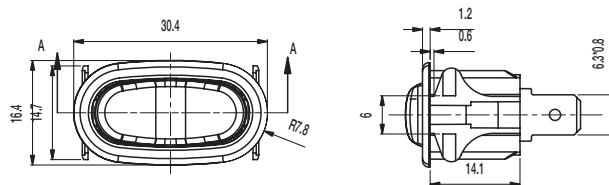
HOUSING: PA (UL 94V-2).
 KNOB: PA (UL 94V-2).
 CONTACTS: Silver plated.

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

Environmental

OPERATING TEMPERATURE: 0°C to 65°C

PART NUMBER	HOUSING COLOR
SW-13A65N-A01	White
SW-13A65N-A01 BK	Black
SW-11A06N-A02	Black
SW-11A06N-A03 AP	Black
SW-11A06N-B02	Black
SW-11A06N-B02 AP	Black
SW-11A06N-CR02	Black
SW-12A06N-B02	Black
SW-12A06N-F01	Black
SW-12B03N	Black
SW-13A65N-A01 AK	Almond
SW-13A65N-A01 BI	Biscuit



CG Series Single Pole Power Rocker Switches

Features/Benefits

- Bevelled frame
- Illuminated versions available
- Easy panel mount installation

Typical Applications

- Computers and peripherals
- Small appliances
- Instrument panels
- Industrial controls
- RoHS compliant



UL **UL 61058-1**

Specifications

CONTACT RATING:
 16 AMPS @ 125 VAC, 10 AMPS @ 250 VAC.
 10 AMPS @ 250 VAC, 6 AMPS @ 250 VAC.
 ELECTRICAL LIFE: 10,000 make and break cycles at full load.
 INSULATION RESISTANCE: $10^8 \Omega$ min.
 DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.
 OPERATING TEMPERATURE: -20°C to +85°C

Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, matte finish.
 ILLUMINATED ACTUATOR: Polycarbonate, matte finish.
 CENTER CONTACTS: Silver plated, copper alloy.
 END CONTACTS: Silver plated.
 ALL TERMINALS: Silver plated, copper alloy.

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

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-87 through G-89. For additional options not shown in catalog, consult Customer Service Center.

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Switch Function _____	
CG101 SPDT On-None-On	
CG102 SPST On-None-Off	
CG103 SPDT On-Off-On	
CG105 SPDT Mom-Off-Mom	
CG12 * SPST On-None-Off	
Actuator _____	
J1 Rocker	
J2 **Two-tone rocker	
J3 Illuminated rocker	
Actuator Color _____	
2 Black	
1 White	
3 Red	
R Red, illuminated	
A Amber, illuminated	
G Green, illuminated	
Mounting Style/Color _____	
S2 Snap-in, black	
S1 Snap-in, white	
Termination _____	
05 .250" quick connect	
Actuator Marking _____	
(NONE) No marking	
D ON-OFF	
H "O I" - international ON-OFF	
P "O -" international ON-OFF	
Contact Rating _____	
QF Silver	
Lamp Rating _____	
(NONE) No lamp	
7 125 VAC neon	
8 250 VAC neon	

* CG12 — for switches with both marking and illumination

** J2 — refer to table on next page for actuator options

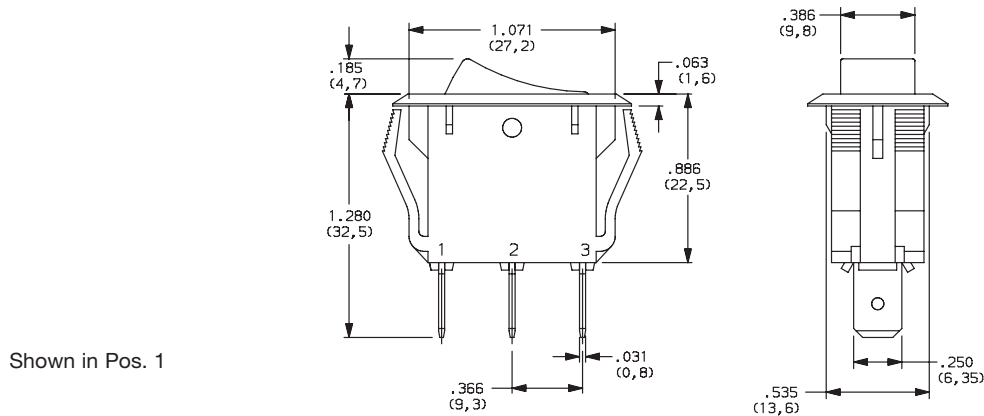
CG Series Single Pole Power Rocker Switches

SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		Pos. 1	Pos. 2	Pos. 3	Pos. 1	Pos. 2	Pos. 3	
		C&K marking on opposite side			C&K marking on opposite side			
SP	CG101	ON	NONE	ON	1-2		2-3	
	CG102	ON	NONE	OFF	1-2	N/A	OPEN	 OR For Illuminated Version
	CG103	ON	OFF	ON	1-2	OPEN	2-3	
	CG105	MOM	OFF	MOM	1-2	OPEN	2-3	
	CG12 *	ON	NONE	OFF	1-2	N/A	OPEN	

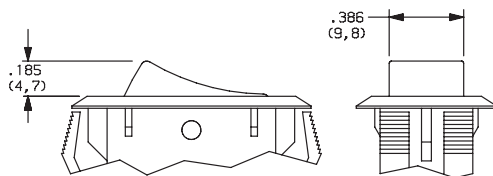
* CG12 - for switches with both marking and illumination



ACTUATOR

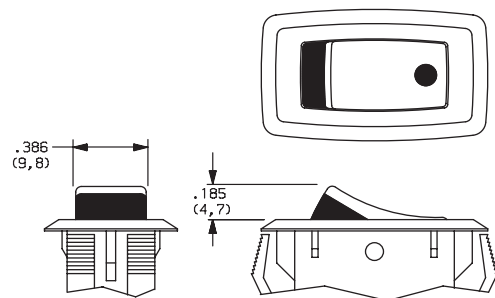


- J1** ROCKER
- J3** ILLUMINATED ROCKER



NOTE: J3 actuator available with CG102 switch function only.

- J2** TWO-TONE ROCKER



NOTE: Available with CG102 switch function only.



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



CG Series Single Pole Power Rocker Switches

ACTUATOR COLOR

ACTUATOR	OPTION CODE	ACTUATOR COLOR
J1	2	BLACK
	1	WHITE
	3	RED
J3	R	RED, ILLUMINATED
	A	AMBER, ILLUMINATED
	G	GREEN, ILLUMINATED

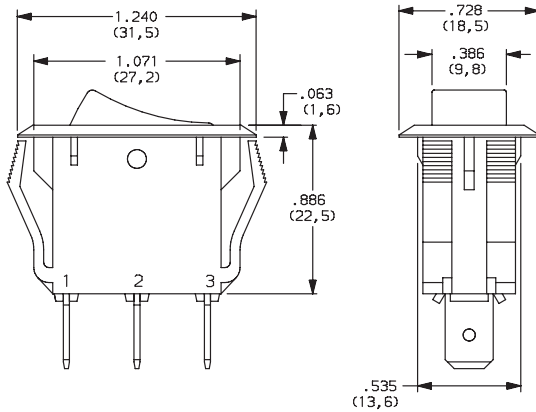
OPTION CODE	ACTUATOR COLOR	
	TOP	BOTTOM
1	WHITE	RED
2	WHITE	BLACK
3	RED	WHITE
4	BLACK	WHITE
5	BLACK	RED

J2 actuator only

MOUNTING STYLE/COLOR

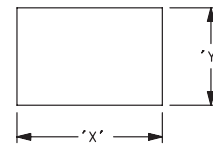
S2 SNAP-IN, BLACK

S1 SNAP-IN, WHITE



Shown in Pos. 1

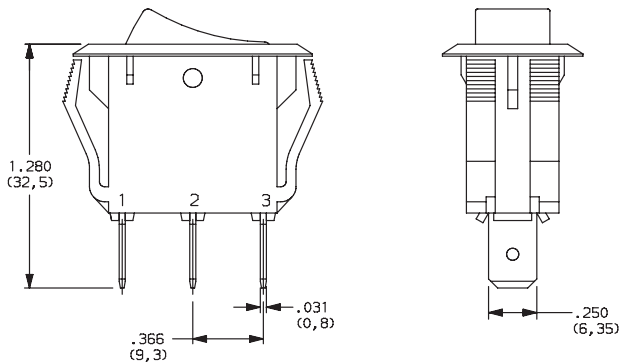
PANEL MOUNTING



PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	1.087-.004 (27,6-0,1)	0.543+.004 (13,8+0,1)
0.049-0.079 (1,25-2,0)	1.094-.004 (27,8-0,1)	0.543+.004 (13,8+0,1)
0.079-0.118 (2,0-3,0)	1.102-.004 (28,0-0,1)	0.543+.004 (13,8+0,1)

TERMINATION

05 .250" QUICK CONNECT



Shown in Pos. 1



CG Series Single Pole Power Rocker Switches

ACTUATOR MARKING



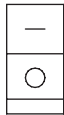
NONE NO MARKING



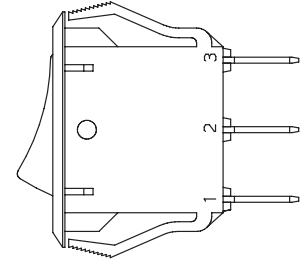
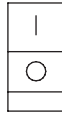
D ON-OFF



H 01



P 0-



NOTE: Orientation of actuator marking and terminals.

Shown in Pos. 1

CONTACT MATERIAL



OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
QF	SILVER	POWER	16 AMPS @ 125 VAC; 10 AMPS @ 250 VAC 10 AMPS @ 250 VAC

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



LAMP RATING



(NONE) NO LAMP

7 125 VAC 33kΩ NEON

8 250 VAC 150kΩ NEON

NOTE: Lamp rating for J3 actuator option.

Rocker



G

C&K



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

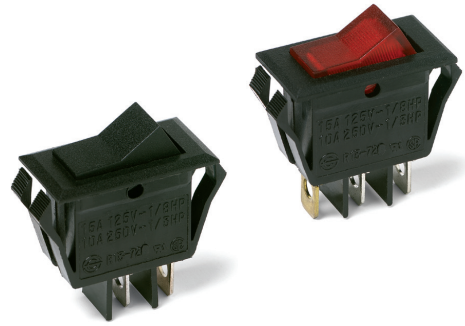
CL Series Single Pole Power Rocker Switches

Features/Benefits

- Illuminated versions available
- Positive detent
- Snap-in mounting

Typical Applications

- Floor care products
- Power outlet strips
- HVAC units
- RoHS compliant



Specifications

CONTACT RATING:
 16 AMPS @ 125 VAC, 1/3 HP;
 10 AMPS @ 250 VAC, 1/2 HP.
 ELECTRICAL LIFE: 10,000 make and break cycles at full load.
 INSULATION RESISTANCE: $10^8 \Omega$ min.
 DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.
 OPERATING TEMPERATURE: -20°C to +80°C

Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, matte finish.
 ILLUMINATED ACTUATOR: Polycarbonate, matte finish.
 CENTER CONTACTS: Silver plated, copper alloy.
 END CONTACTS: Silver plated.
 ALL TERMINALS: Silver plated, copper alloy.

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

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-91 through G-93. For additional options not shown in catalog, consult Customer Service Center.

<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Switch Function _____ CL101 SPDT On-None-On CL102 SPST On-None-Off CL12* SPST On-None-Off	
Actuator _____ J7 Rocker J9 Illuminated rocker	
Actuator Color _____ 2 Black 1 White 3 Red R Red, illuminated A Amber, illuminated G Green, illuminated	
Mounting Style/Color _____ S2 Snap-in, black S1 Snap-in, white	
Termination _____ 05 .250" quick connect	
Actuator Marking _____ (NONE) No marking D ON-OFF H "O I" - international ON-OFF P "O -" international ON-OFF	
Contact Rating _____ QA Silver	
Lamp Rating _____ (NONE) No lamp 7 125 VAC neon 8 250 VAC neon	

* CL12 - for switches with both marking and illumination

Rocker



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



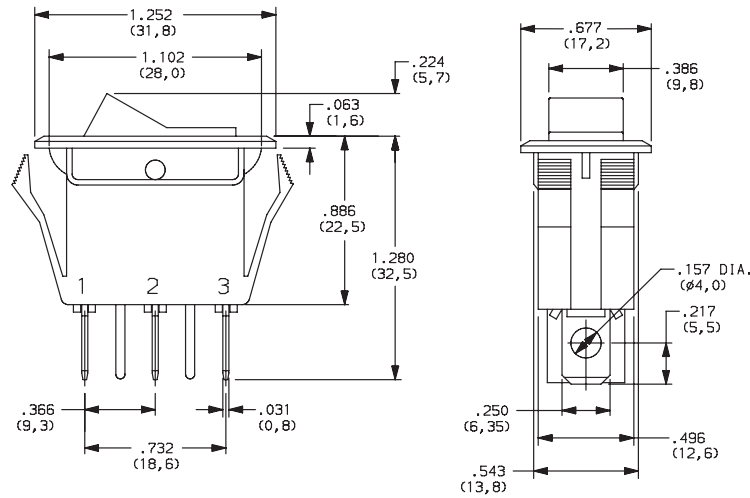
CL Series Single Pole Power Rocker Switches

SWITCH FUNCTION



NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		Pos. 1	Pos. 2	Pos. 3	Pos. 1	Pos. 2	Pos. 3	
		C&K marking on opposite side			C&K marking on opposite side			
SP	CL101	ON	NONE	ON	2-1	N/A	2-3	
	CL102	ON	NONE	OFF	2-1		OPEN	 For Illuminated Version
	CL12 *	ON	NONE	OFF				

* CL12 - for switches with both marking and illumination



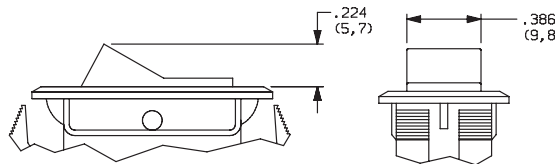
Shown in Pos. 1

ACTUATOR



J7 ROCKER

J9 ILLUMINATED ROCKER

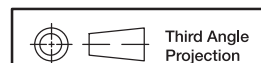


NOTE: J9 actuator available with CL102 & CL12 switch function only.

ACTUATOR COLOR



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED
R	RED, ILLUMINATED
A	AMBER, ILLUMINATED
G	GREEN, ILLUMINATED



Third Angle
Projection

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

Rocker



G

C&K

CL Series Single Pole Power Rocker Switches

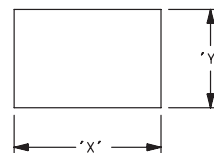
MOUNTING STYLE/COLOR



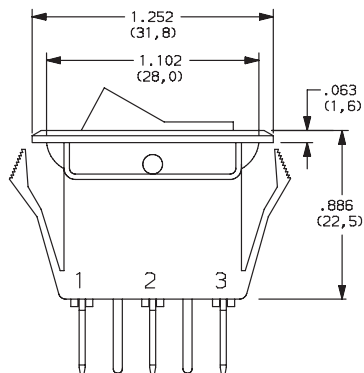
S2 SNAP-IN, BLACK

S1 SNAP-IN, WHITE

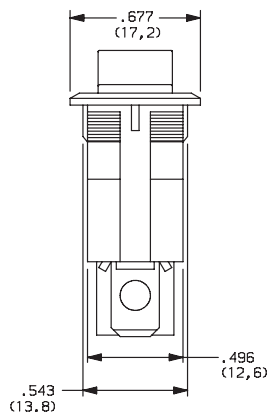
PANEL MOUNTING



PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	1.126-.004 (28,6-0,1)	0.551+.004 (14,0+0,1)
0.049-0.079 (1,25-2,0)	1.134-.004 (28,8-0,1)	0.551+.004 (14,0+0,1)
0.079-0.118 (2,0-3,0)	1.150-.004 (29,2-0,1)	0.551+.004 (14,0+0,1)



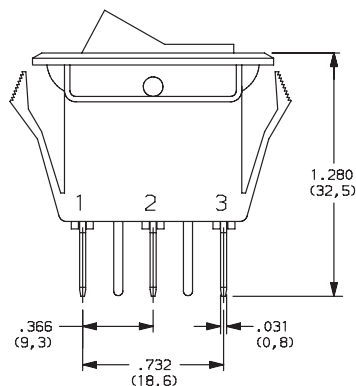
Shown in Pos. 1



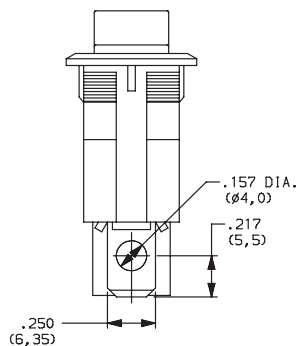
TERMINATION



05 .250" QUICK CONNECT



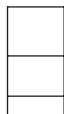
Shown in Pos. 1



ACTUATOR MARKING



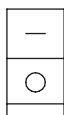
NONE NO MARKING



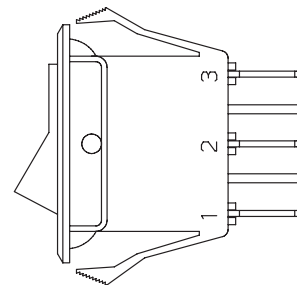
D ON-OFF



H O I

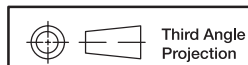


P O -



NOTE: Orientation of actuator marking and terminals.

Shown in Pos. 1



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



CL Series Single Pole Power Rocker Switches

CONTACT MATERIAL



OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
		QA	SILVER

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



LAMP RATING



(NONE) NO LAMP

7 125 VAC 33kΩ NEON

8 250 VAC 150kΩ NEON

NOTE: Lamp rating for J9 actuator option.



CM Series Single Pole Power Rocker Switches

Features/Benefits

- *Illuminated versions available*
- *Easy to install snap-in design*
- *Multiple actuator and termination styles to choose from*

Typical Applications

- *Computers and peripherals*
- *Power supplies*
- *Industrial equipment*
- *Small appliances*
- *RoHS compliant*



Specifications

CONTACT RATING:

- 16 AMPS @ 125 VAC, 1/8 HP;
- 10 AMPS @ 250 VAC, 1/3 HP.

ELECTRICAL LIFE: 10,000 make and break cycles at full load.

INSULATION RESISTANCE: 10⁸ Ω min.

DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.

OPERATING TEMPERATURE: -20°C to +80°C

Materials

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, gloss or matte finish.

ILLUMINATED ACTUATOR: Polycarbonate, gloss or matte finish.

CENTER CONTACTS: Silver plated, copper alloy.

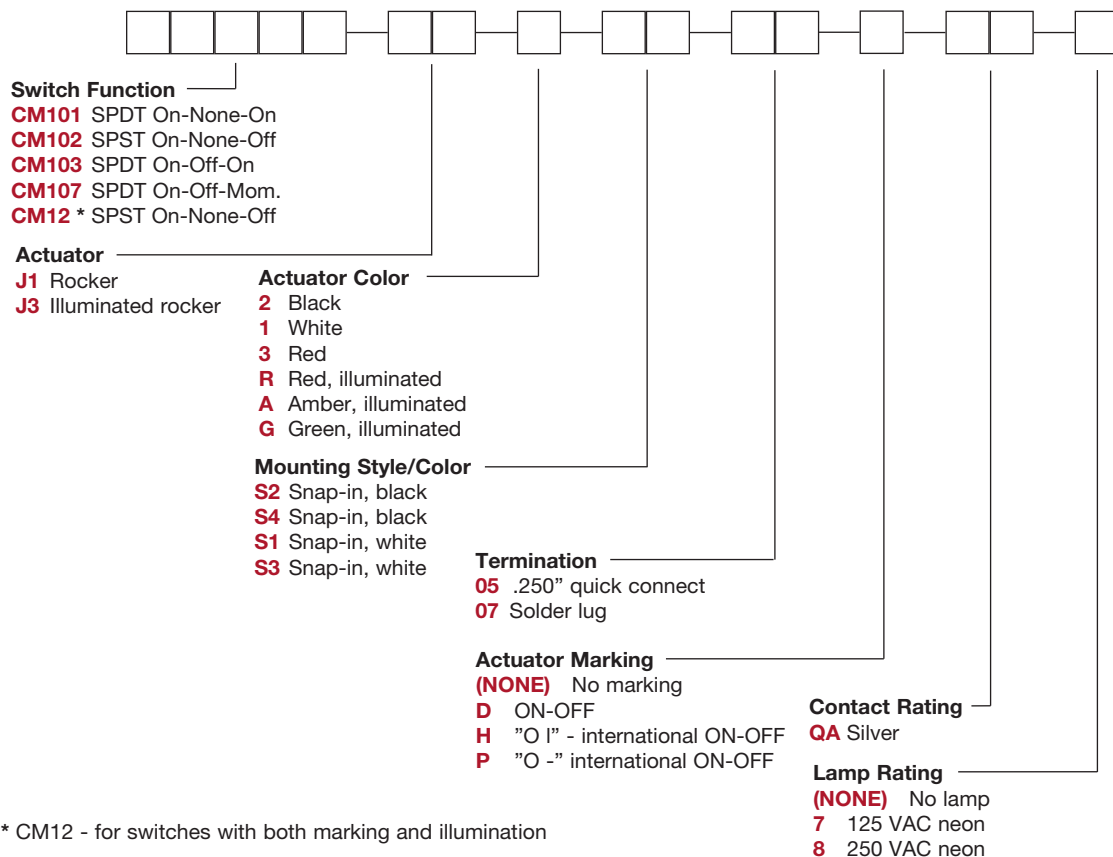
END CONTACTS: Silver plated.

ALL TERMINALS: Silver plated, copper alloy.

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

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-95 through G-97. For additional options not shown in catalog, consult Customer Service Center.



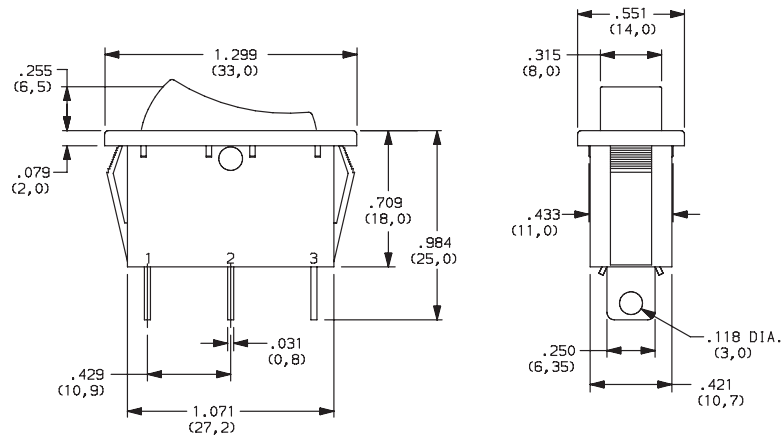
CM Series Single Pole Power Rocker Switches

SWITCH FUNCTION



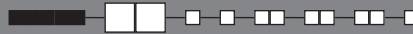
NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC
		Pos. 1	Pos. 2	Pos. 3	Pos. 1	Pos. 2	Pos. 3	
SP	CM101	ON	NONE	ON	C&K marking on opposite side			2-3
	CM102	ON	NONE	OFF	C&K marking on opposite side			N/A OPEN
	CM103	ON	OFF	ON	C&K marking on opposite side			2-1
	CM107	ON	OFF	MOM.	C&K marking on opposite side			OPEN 2-3
	CM12 *	ON	NONE	OFF	C&K marking on opposite side			N/A OPEN

* CM12 - for switches with both marking and illumination

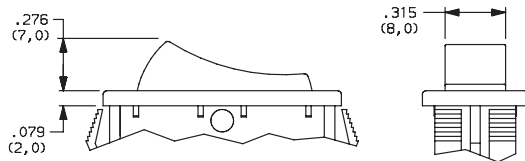


Shown in Pos. 1

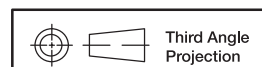
ACTUATOR



- J1** ROCKER
- J3** ILLUMINATED ROCKER



NOTE: J3 actuator available with CM102 & CM12 switch function only.



Third Angle Projection

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

C&K

16 May 18

G-92

www.ckswitches.com

Rocker

G

CM Series Single Pole Power Rocker Switches

ACTUATOR COLOR



OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED
R	RED, ILLUMINATED
A	AMBER, ILLUMINATED
G	GREEN, ILLUMINATED

MOUNTING STYLE/COLOR

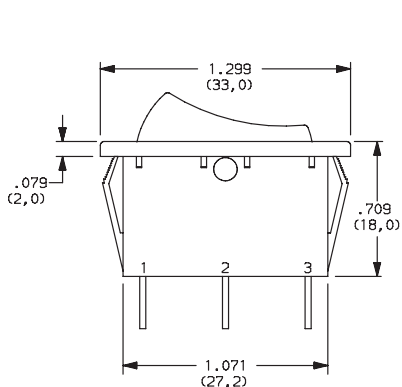


S2 SNAP-IN, BLACK

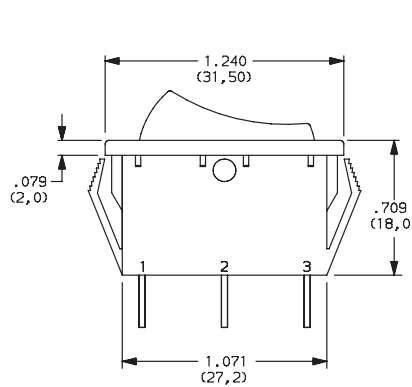
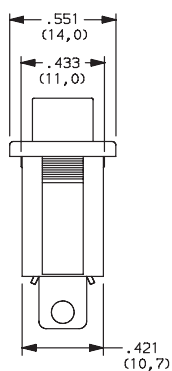
S4 SNAP-IN, BLACK (SHORT FRAME)

S1 SNAP-IN, WHITE

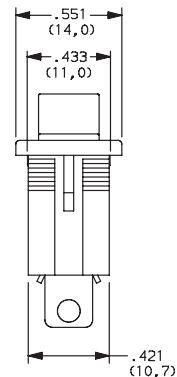
S3 SNAP-IN, WHITE



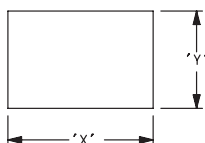
Shown in Pos. 1



Shown in Pos. 1



PANEL MOUNTING



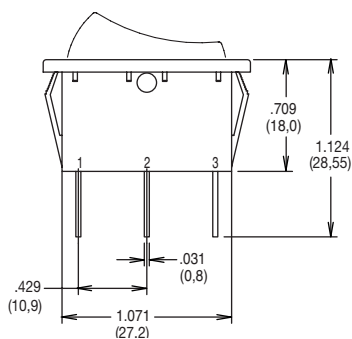
PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	1.189-.004 (30,2-0,1)	0.441+.004 (11,2+0,1)
0.049-0.079 (1,25-2,0)	1.197-.004 (30,4-0,1)	0.441+.004 (11,2+0,1)
0.079-0.118 (2,0-3,0)	1.212-.004 (30,8-0,1)	0.441+.004 (11,2+0,1)

TERMINATION

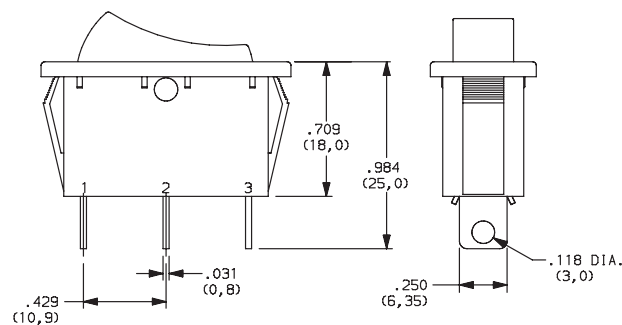
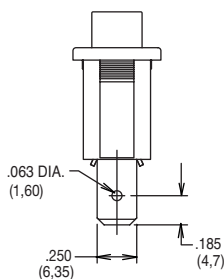


05 .250 QUICK CONNECT

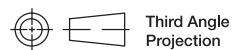
07 SOLDER LUG



Shown in Pos. 1



NOTE: Available with CM101 & CM102 switch functions only.



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



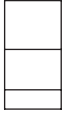
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CM Series Single Pole Power Rocker Switches

ACTUATOR MARKING

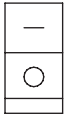
NONE NO MARKING



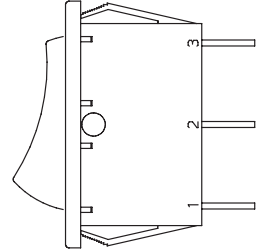
D ON-OFF



H O I



P O -



NOTE: Orientation of actuator marking and terminals.

Shown in Pos. 1

CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
		QA	SILVER

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



LAMP RATING

(NONE) NO LAMP

7 125 VAC 33kΩ NEON

8 250 VAC 150kΩ NEON

NOTE: Lamp rating for J3 & J8 actuator option.

Rocker



G

C&K

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G-94



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

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CN Series Double Pole Power Rocker Switches

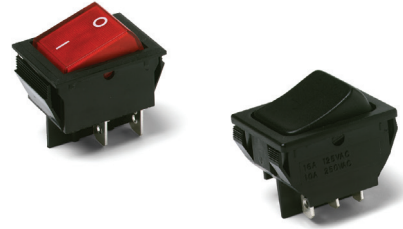
Features/Benefits

- Illuminated versions available
- Multiple actuator and termination styles
- Robust design
- Custom version upon request
- RoHS compliant



Typical Applications

- Appliances
- Office equipment
- Computers and peripherals
- Off-road vehicles
- Industrial machines
- HVAC units
- Transportation



Specifications

CONTACT RATING:

See table for Q and QA ratings on the last page of this series.

ELECTRICAL LIFE: 10,000 make and break cycles at full load.

INSULATION RESISTANCE: 10⁸ Ω min.

DIELECTRIC STRENGTH: 1,500 VRMS @ sea level.

OPERATING TEMPERATURE: -20°C to +85°C

HOUSING AND ACTUATOR: 6/6 nylon (UL94V-2), black, matte finish.

ILLUMINATED ACTUATOR: Polycarbonate, matte finish.

CENTER CONTACTS: Silver plated, copper alloy.

END CONTACTS: Silver plated Ag₂SuO₂InO₃.

ALL TERMINALS: Silver plated, copper alloy.

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

Materials

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-99 through G-101. For additional options not shown in catalog, consult Customer Service Center.

<div style="border: 1px solid black; width: 100px; height: 15px; display: inline-block;"></div>		<div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block;"></div>		<div style="border: 1px solid black; width: 20px; height: 15px; display: inline-block;"></div>		<div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block;"></div>		<div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block;"></div>		<div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block;"></div>		<div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block;"></div>		<div style="border: 1px solid black; width: 30px; height: 15px; display: inline-block;"></div>	
Switch Function		Actuator Color		Mounting Style/Color		Termination		Actuator Marking		Contact Rating		Lamp Rating			
CN201 DPDT On-None-On CN202 DPST On-None-Off CN22 * DPST On-None-Off		2 Black 1 White 3 Red R Red, illuminated A Amber, illuminated G Green, illuminated		S2 Snap-in, black S4 Snap-in, black S1 Snap-in, white S3 Snap-in, white		15 .187" quick connect 05 .250" quick connect		(NONE) No marking D ON-OFF H "O I" - international ON-OFF P "O -" international ON-OFF		Q Silver QA Silver (with HP rating)		(NONE) No lamp 7 125 VAC neon 8 250 VAC neon			

* CN22 - for switches with both marking and illumination

Rocker



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



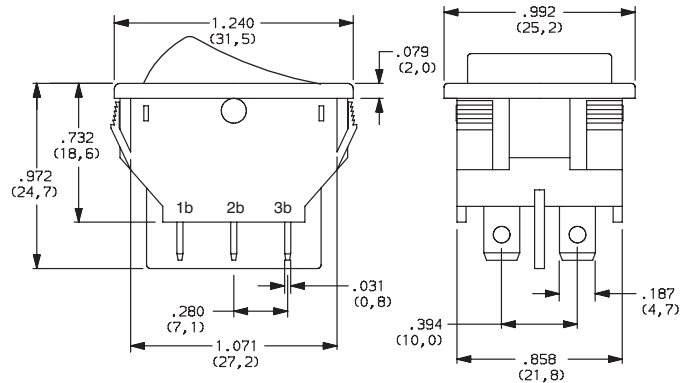
CN Series Double Pole Power Rocker Switches

SWITCH FUNCTION



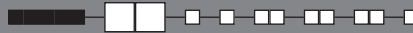
NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS			SCHEMATIC	
		Pos. 1	Pos. 2	Pos. 3	Pos. 1	Pos. 2	Pos. 3		
		C&K marking on opposite side			C&K marking on opposite side				
DP	CN201	ON	NONE	ON	2-1 4-5	N/A	2-3 6-5		
	CN202	ON	NONE	OFF				OPEN	
	CN22 *	ON	NONE	OFF					

* CN22 - for switches with both marking and illumination

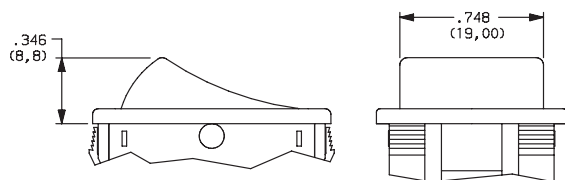


Shown in Pos. 1

ACTUATOR

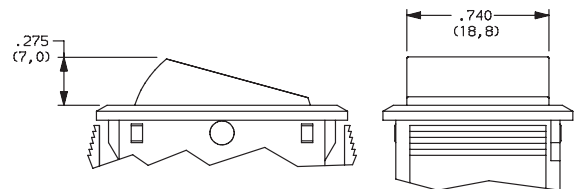


- J1** ROCKER
- J3** ILLUMINATED ROCKER



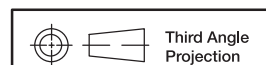
NOTE: J1 & J3 actuators available with Q contact rating only.
J3 actuator available with CN202 & CN22 switch function only.

- J6** ROCKER
- J8** ILLUMINATED ROCKER



NOTE: J6 & J8 actuators available with QA contact rating only.
J6 actuator available with CN201 & CN202 switch functions,
J8 actuator available with CN202 & CN22 switch function only.

Rocker



Third Angle
Projection

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

C&K

CN Series Double Pole Power Rocker Switches

ACTUATOR COLOR

OPTION CODE	ACTUATOR COLOR
2	BLACK
1	WHITE
3	RED
R	RED, ILLUMINATED
A	AMBER, ILLUMINATED
G	GREEN, ILLUMINATED

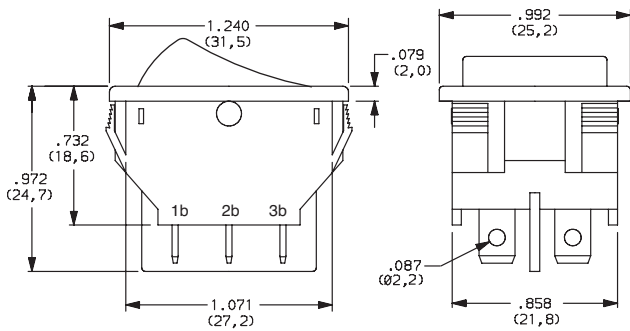
MOUNTING STYLE/COLOR

S2 SNAP-IN, BLACK

S1 SNAP-IN, WHITE

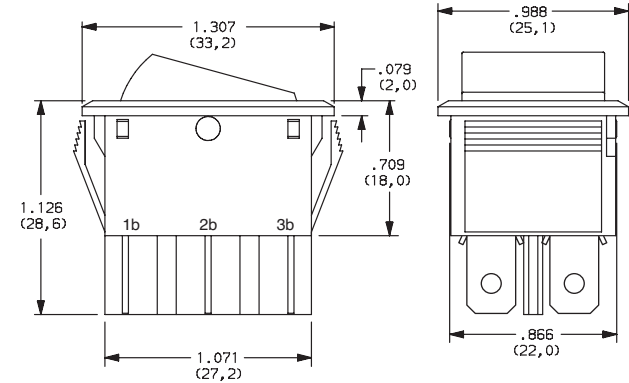
S4 SNAP-IN, BLACK

S3 SNAP-IN, WHITE



NOTE: Available with 15 termination and Q contact rating only.

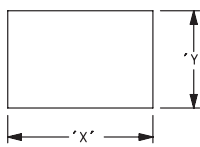
Shown in Pos. 1



NOTE: Available with 05 termination and QA contact rating only.

Shown in Pos. 1

PANEL MOUNTING

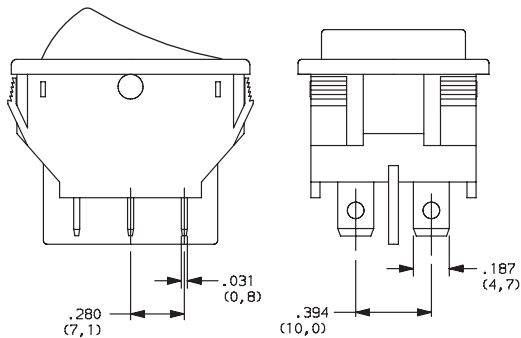


PANEL THICKNESS	"X"	"Y"
0.030-0.049 (0,75-1,25)	1.190-.004 (30,2-0,1)	0.874+.004 (22,2+0,1)
0.049-0.079 (1,25-2,0)	1.197-.004 (30,4-0,1)	0.874+.004 (22,2+0,1)
0.079-0.118 (2,0-3,0)	1.213-.004 (30,8-0,1)	0.874+.004 (22,2+0,1)

TERMINATION

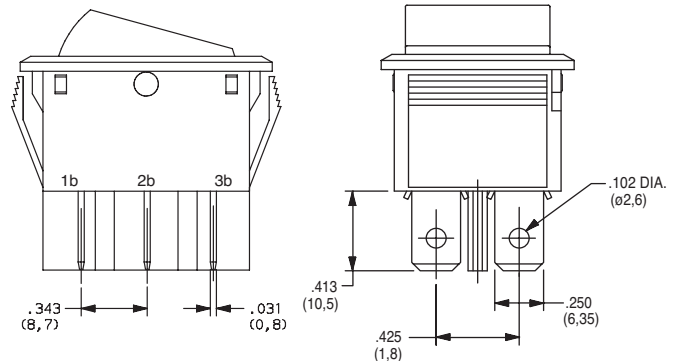
15 .187" QUICK CONNECT

05 .250" QUICK CONNECT



NOTE: Available with S1 & S2 mounting style and Q contact rating only.

Shown in Pos. 1



NOTE: Available with S3 & S4 mounting styles and QA contact rating, CN201 & CN202 switch functions only.

Shown in Pos. 1



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

C&K



CN Series Double Pole Power Rocker Switches

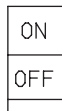
ACTUATOR MARKING



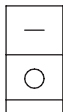
NONE NO MARKING



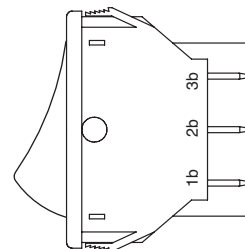
D ON-OFF



H 01



P 0-



NOTE: Orientation of actuator marking and terminals.
Shown in Pos. 1

CONTACT MATERIAL



OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
Q	SILVER	POWER	16A @ 125C 1/3 HP @ 125 V AC
QA			10A @ 250 V AC 1/2HP @ 250 V AC
			16A @ 125 VAC, 1/8 HP @ 125 V AC; 10 A @ 250 VAC, 1/3 HP @ 250 V AC

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



LAMP RATING

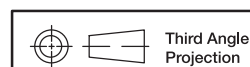


(NONE) NO LAMP

7 125 VAC 33k Ω NEON

8 250 VAC 150k Ω NEON

NOTE: Lamp rating for J3 & J8 actuator options.



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

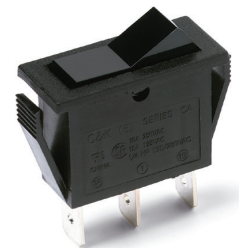
CA Series Power Rocker Switches

Features/Benefits

- 15 AMPS @ 125 V AC
- Cosmetic slimline detail
- Positive detent

Typical Applications

- Hair dryers and other small appliances
- HVAC and other large appliances
- RoHS compliant



Specifications

CONTACT RATING: 15 AMPS @ 125 V AC;
10 AMPS @ 250 V AC;
1/4 HP @ 125 V AC or 250 V AC

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

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

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

OPERATING TEMPERATURE: -30°C to +65°C

Materials

HOUSING: 6/6 nylon (UL 94V-2), black.

ACTUATOR: Polycarbonate (UL 94V-2), black.

CONTACTS: Coin silver, silver plated.

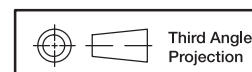
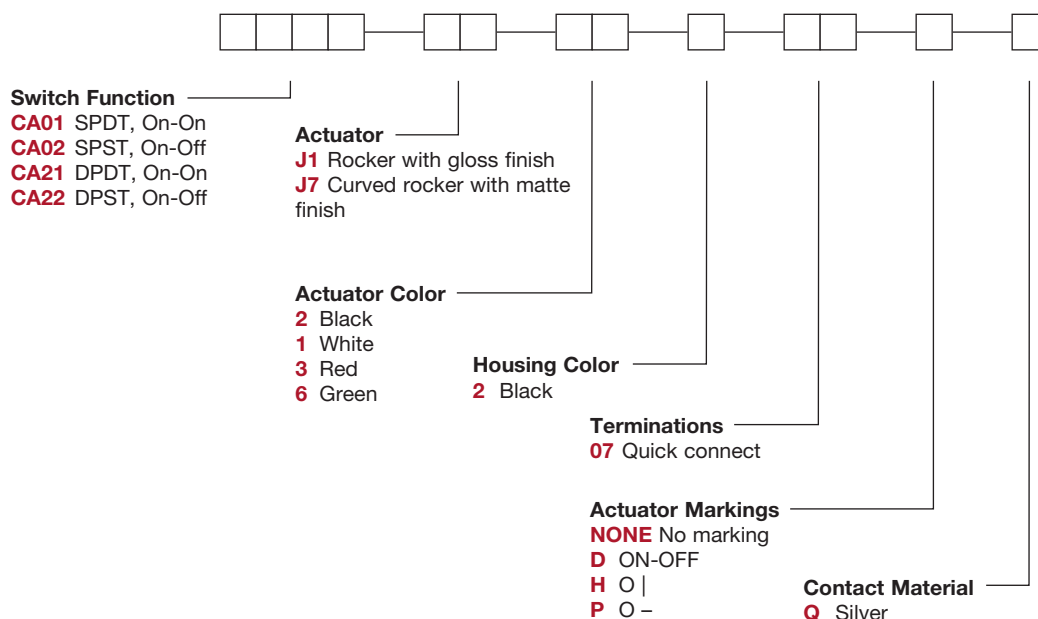
TERMINALS: Copper, silver plated.

CONTACT SPRING: Music wire.

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

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-106 through G-108. For additional options not shown in catalog, consult Customer Service Center.



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



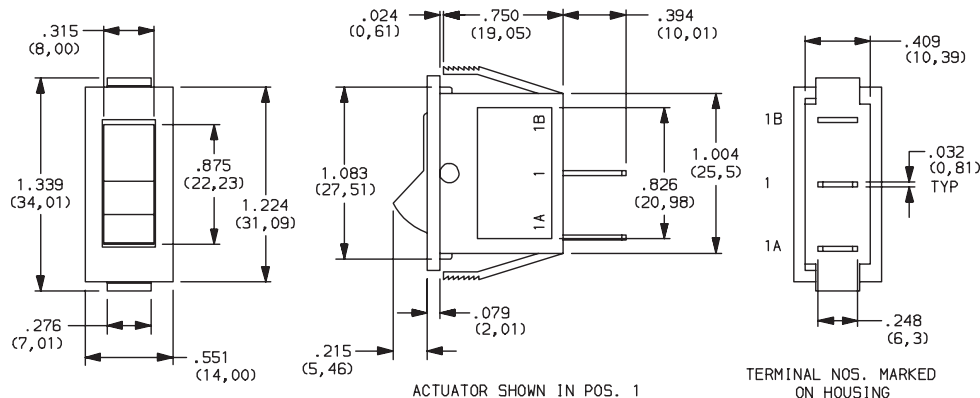
CA Series Power Rocker Switches

SWITCH FUNCTION

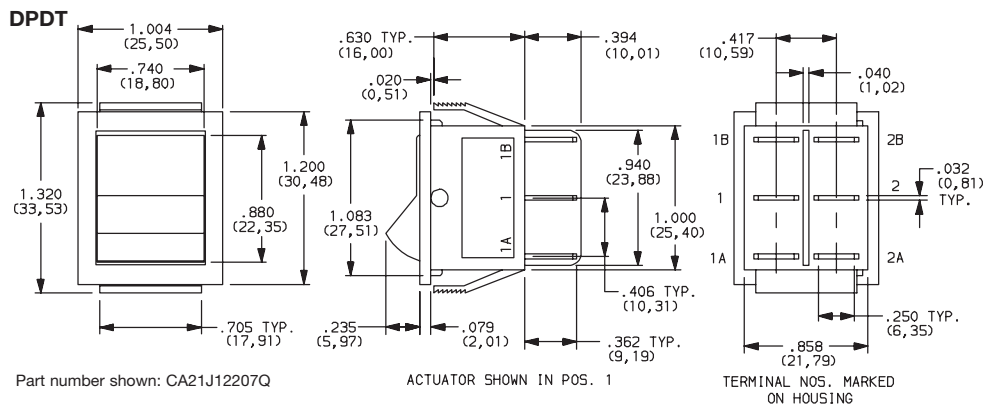


NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS. 1	POS. 2	POS. 1	POS. 2	
SP	CA01	ON	ON	1-1A	1-1B	SPDT
	CA02	ON	OFF	1-1A	OPEN	SPST

SPST



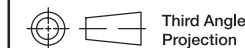
DP	CA21	ON	ON	1-1A, 2-2A	1-1B, 2-2B	DPDT
	CA22	ON	OFF	1-1A, 2-2A	OPEN	DPST



For complete contact ratings and agency approvals, see CONTACT MATERIAL section, page G-108.
Contacts make on side opposite actuator thrown.

All models  US with all options.

Rocker



Third Angle
Projection

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

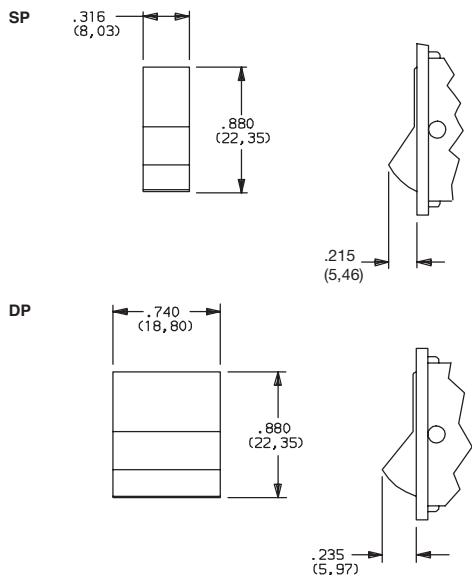
C&K

CA Series Power Rocker Switches

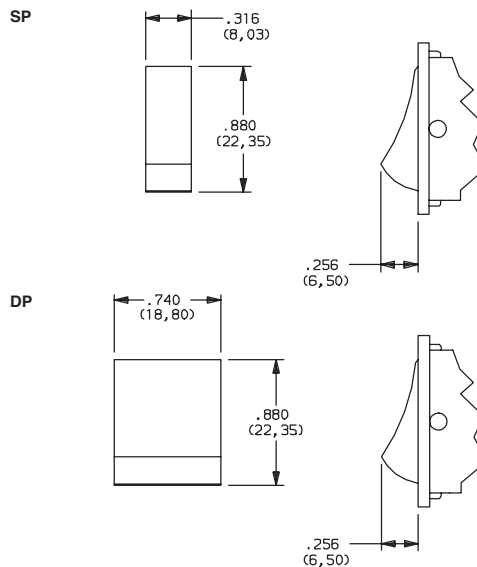
ACTUATOR



J1 ROCKER WITH GLOSS FINISH



J7 CURVED ROCKER WITH MATTE FINISH



ACTUATOR COLOR



OPTION CODE	OPAQUE ACTUATOR COLOR
1	WHITE
2	BLACK
3	RED
6	GREEN

NOTE: Actuator finish: matte. Special colors available, consult Customer Service Center.

HOUSING COLOR

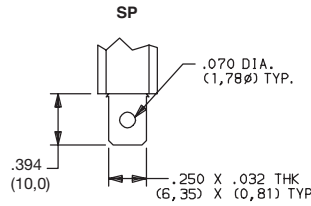


OPTION CODE	HOUSING COLOR
2	BLACK

NOTE: Housing frame finish: matte.

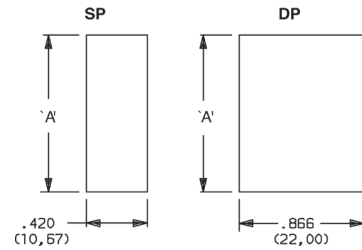
TERMINATIONS

07 QUICK CONNECT



PANEL MOUNTING

J1, & J7 only



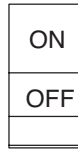
PANEL THICKNESS	DIM 'A'
.059-.078 (1,50) (2,00)	1.102 (28,00)
.078-.118 (2,00) (3,00)	1.110 (28,20)
.118-.177 (3,00) (4,50)	1.126 (28,60)

ACTUATOR MARKINGS

NONE NO MARKING



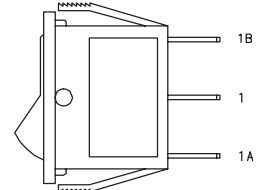
D ON-OFF



H O |



P O -



Marking color white, standard for all actuator colors except white and yellow. Marking color black, standard for white and yellow actuators. Consult Customer Service Center for other available markings and colors.

NOTE: Orientation of actuator markings and terminals

CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS		
		Q	SILVER ¹	POWER

c RL us

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

¹ CONTACTS: Coin silver, silver plated.
TERMINALS: Copper, silver plated.

All models **c RL us** with all options.

CA Series Illuminated Power Rocker Switches

Features/Benefits

- 15 AMPS @ 125 V AC
- Illuminated actuator
- Various actuator styles

Typical Applications

- Power outlet strips
- Appliances
- Handling and packaging machines
- RoHS compliant



Specifications

CONTACT RATING: 15 AMPS @ 125 V AC; 10 AMPS @ 250 V AC; 1/4 HP @ 125 V AC or 250 V AC.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

LAMP LIFE: 20,000 hours typ.

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

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

Materials

HOUSING: 6/6 nylon (UL 94V-2), black.

ACTUATOR: Polycarbonate (UL 94V-2), red.

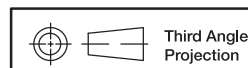
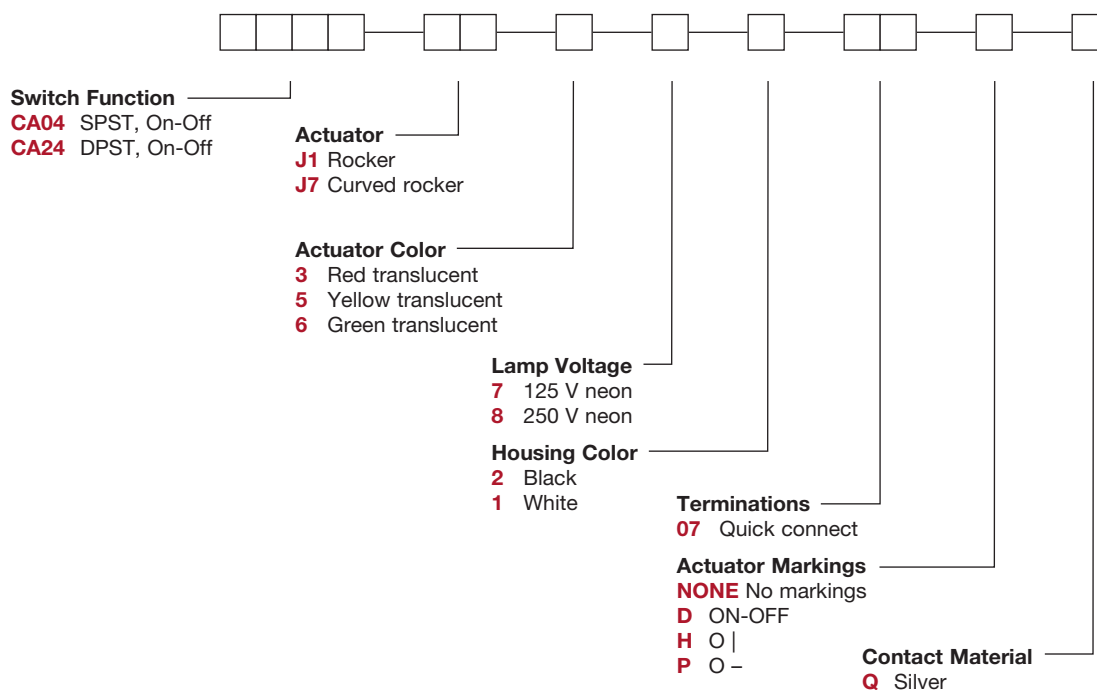
CONTACTS: Coin silver, silver plated.

OPERATING TEMPERATURE: -30°C to +65°C

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

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-103 through G-105. For additional options not shown in catalog, consult Customer Service Center.

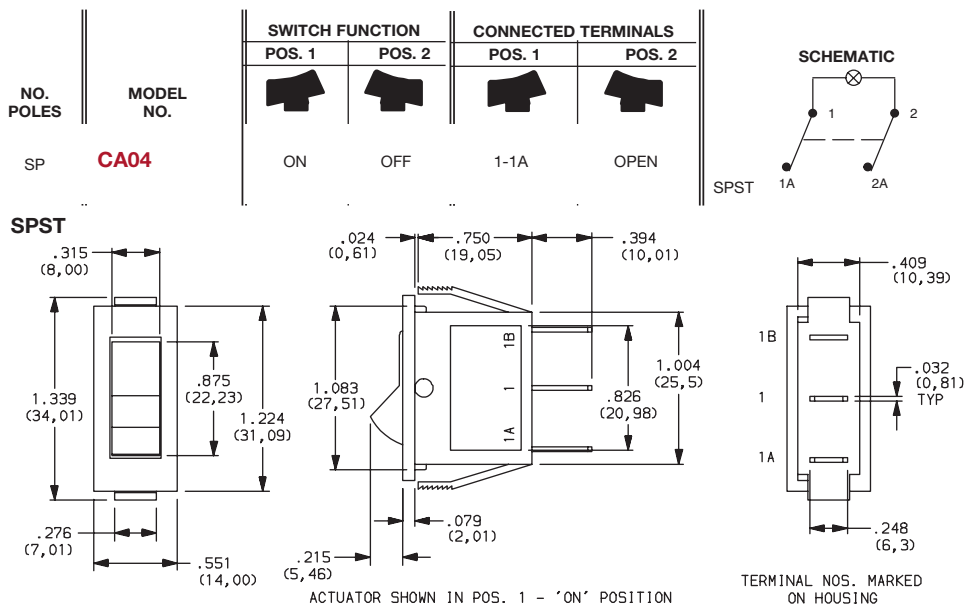


Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

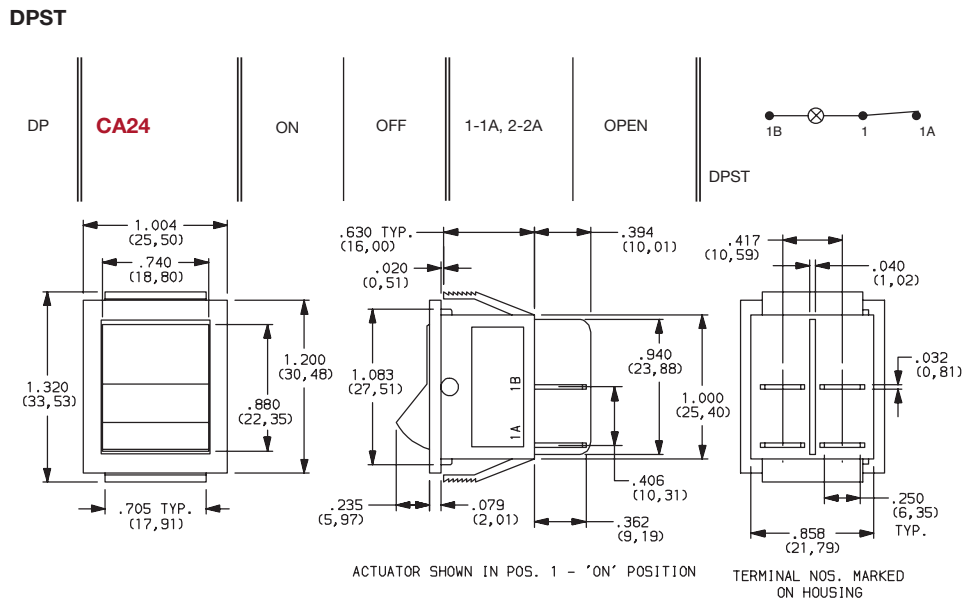


CA Series Illuminated Power Rocker Switches

SWITCH FUNCTION



Part number shown: CA04J137207Q



Part number shown: CA24J137207Q

See CONTACT MATERIAL section, page G-105, for complete contact ratings and agency approvals. Contacts make on side opposite actuator throw.

All models  with all options.

Rocker



G

C&K



Third Angle Projection

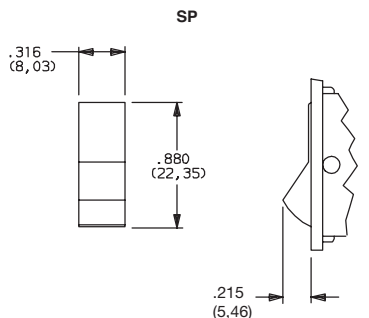
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

CA Series Illuminated Power Rocker Switches

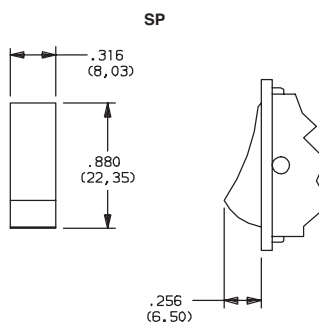
ACTUATOR



J1 ROCKER



J7 CURVED ROCKER



ACTUATOR COLOR



OPTION CODE	ACTUATOR COLOR
3	RED TRANSLUCENT
5	YELLOW
6	GREEN

NOTE: Special colors available, consult Customer Service Center.

NEON LAMP VOLTAGE



- 7** 125 V NEON
- 8** 250 V NEON

HOUSING COLOR



OPTION CODE	HOUSING COLOR
2	BLACK
1	WHITE

NOTE: Housing frame finish: matte. Special colors available, consult Customer Service Center.

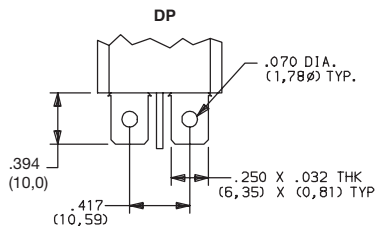
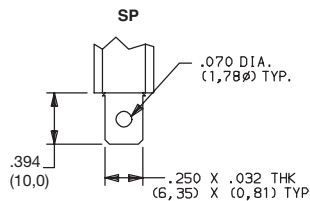


Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

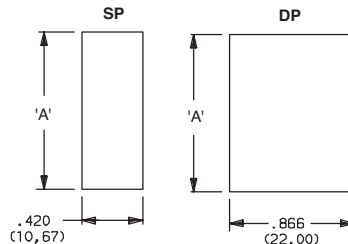
CA Series Illuminated Power Rocker Switches

TERMINATIONS

07 QUICK CONNECT



PANEL MOUNTING



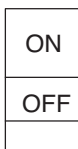
PANEL THICKNESS	DIM 'A'
.059-.078 (1,50) (2,00)	1.102 (28,00)
.078-.118 (2,00) (3,00)	1.110 (28,20)
.118-.177 (3,00) (4,50)	1.126 (28,60)

ACTUATOR MARKINGS

NONE NO MARKING



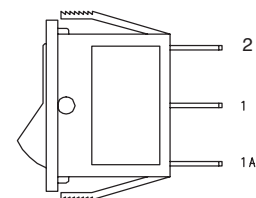
D ON-OFF



H O I



P O -



NOTE: Orientation of actuator markings and terminals

Marking color white, standard for all actuator colors except yellow. Marking color black, standard for yellow actuators. Consult Customer Service Center for other available markings and colors.

CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
		POWER	10 AMPS @ 250 VAC 15 AMPS @ 125 VAC 1/4 HP 125/250 VAC

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

¹ CONTACTS: Coin silver, silver plated.
TERMINALS: Copper, silver plated.

All models with all options.



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