

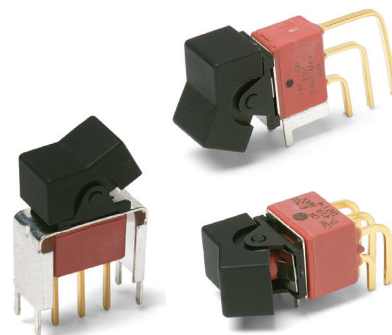
E Series Sealed Miniature Rocker and Lever Handle Switches

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

C&K

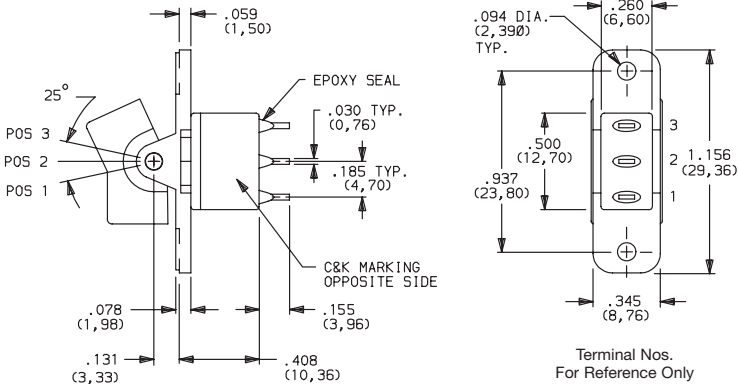
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change

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	
		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.		OPEN		
	E107	ON	OFF	MOM.				
	E108	ON	NONE	MOM.		N/A		

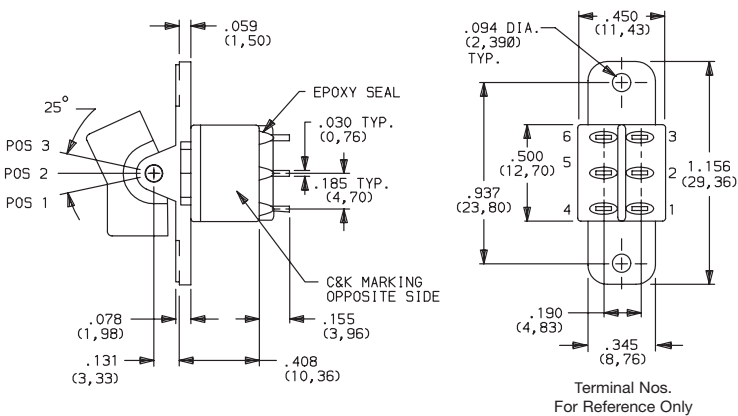
SPDT



Part number shown: E101J1ZBE2

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

DPDT



Part number shown: E201J1ZBE2

MOM. = Momentary
All models with all options when ordered with G, Q, R or S contact material.
** Wiring for 3-way switch, Hardware available separately, see Technical Data section of this catalog.

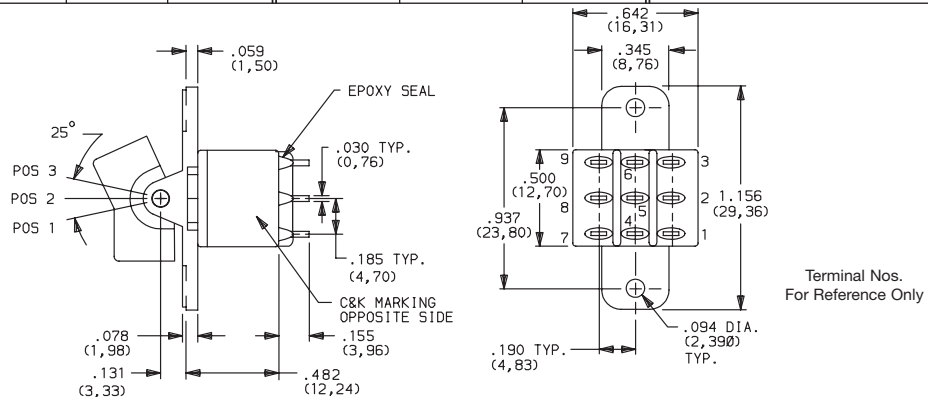
E Series Sealed Miniature Rocker and Lever Handle Switches

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			
3P	E301	ON	NONE	ON	2-3,5-6,8-9	N/A	2-1,5-4,8-7	3PDT

3PDT

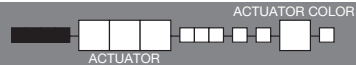


MOM. = Momentary

** 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

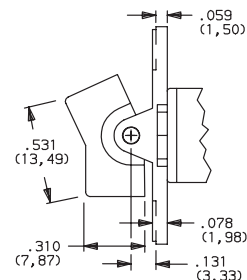
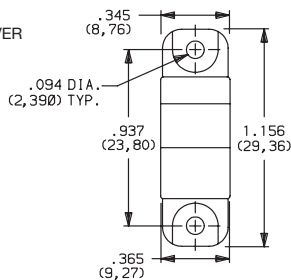


OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

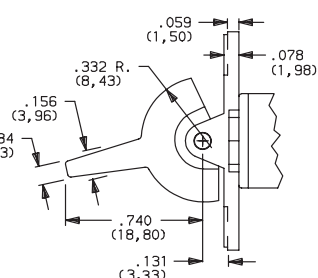
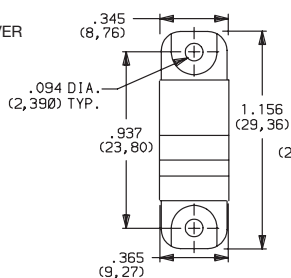
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

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.

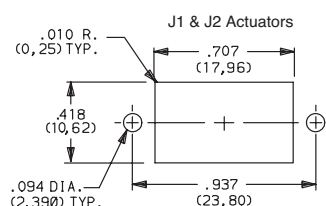
J1 LEVER



J2 LEVER



PANEL MOUNTING



Rocker



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

C&K

E Series

Sealed Miniature Rocker and Lever Handle Switches

ACTUATOR-REAR MOUNT

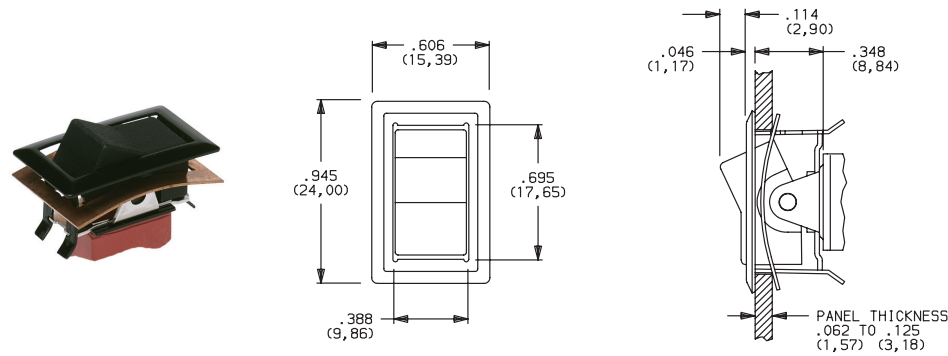
ACTUATOR

ACTUATOR COLOR

FRAME COLOR

J11

ROCKER WITH FRAME



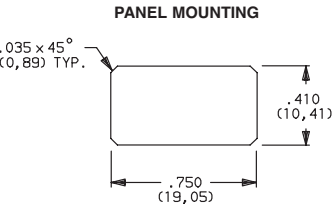
NOTE: This option has reduced anti-static capability.

OPTION CODE	ACTUATOR COLOR
2	BLACK
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: Internal o-ring actuator seal standard. Actuators & frames available separately, see page G-36. Hardware available seperately, see Technical Data section of this catalog. N. J11 & J21 actuators available with C, Z & Z3 terminations.



NOTE: This option has reduced anti-static capability.

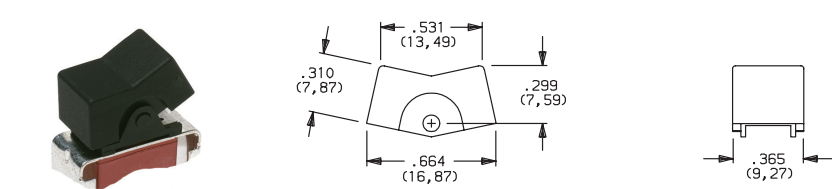
ACTUATOR-PC MOUNT

ACTUATOR

ACTUATOR COLOR

J1

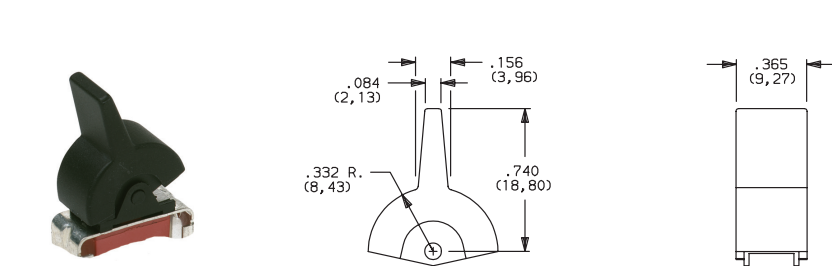
ROCKER



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 seperately, see page G-36. Hardware available seperately, see Technical Data section of this catalog. J1, J2 actuators available with A, A3, AV2, AV3, V2-V61 terminations.



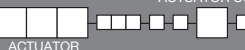
Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change



E Series Sealed Miniature Rocker and Lever Handle Switches

ACTUATOR-PC MOUNT

ACTUATOR COLOR



OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

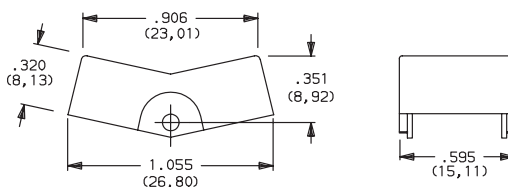
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

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.

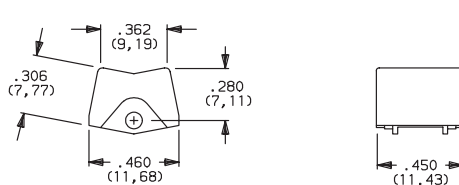
J3 actuators available with AV2, AV3 & V2-V61 terminations. Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

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

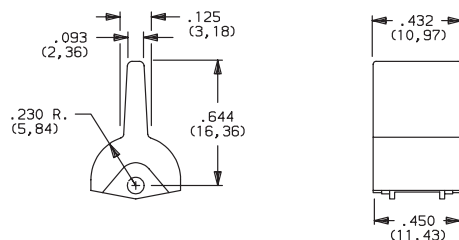
J3 ROCKER



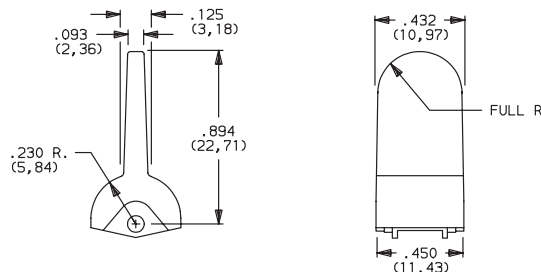
J50 ROCKER



J60 LEVER

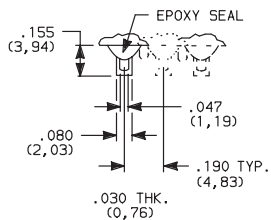


J90 LEVER



TERMINATIONS

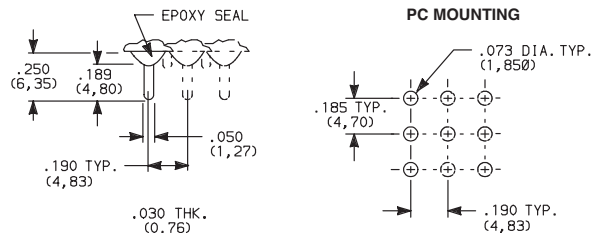
Z SOLDER LUG



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



Third Angle Projection

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

Rocker

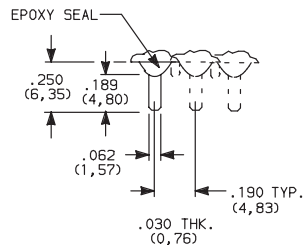
G

C&K

E Series Sealed Miniature Rocker and Lever Handle Switches

TERMINATIONS

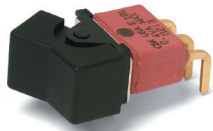
Z3 QUICK CONNECT



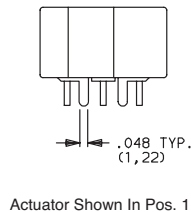
Not available with P, S, & R contact materials. Available actuators, see pages G-27 thru G-28. Mating quick connector available; order part number 530100000, page G-37.

SPDT thru 3PDT

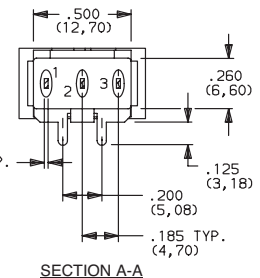
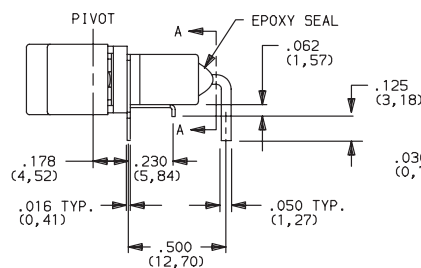
A RIGHT ANGLE, PC THRU-HOLE



E101J1ABE2
Horizontal Actuation
SPDT

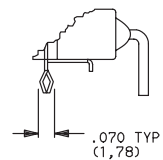
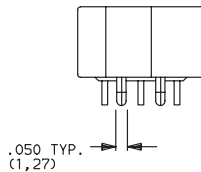


Actuator Shown In Pos. 1



SECTION A-A

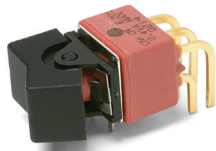
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



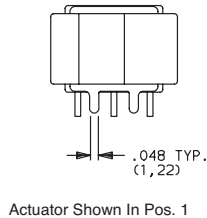
NOTE: Not available with J3, J50, J60 and J90 actuators. Available actuators, see pages G-27 thru G-29. Terminal bend radii and lead-in manufacturing option.

NOTE: PC mounting pattern must clear switch support leg.

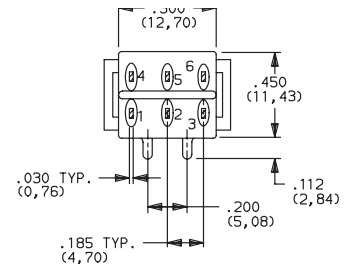
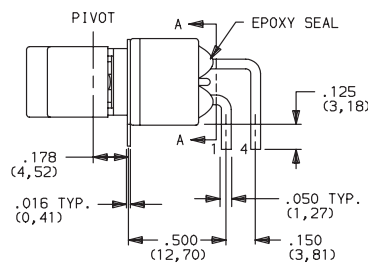
A RIGHT ANGLE, PC THRU-HOLE



E201J1ABE2
Horizontal Actuation
DPDT

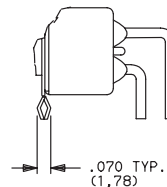
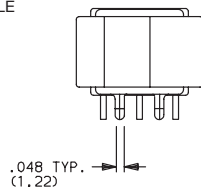


Actuator Shown In Pos. 1

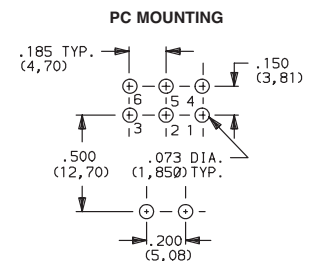


SECTION A-A

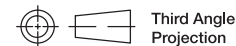
A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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



PC MOUNTING



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

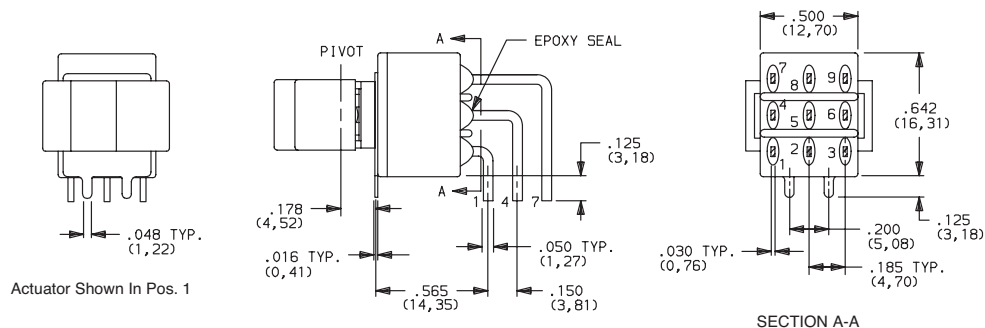


E Series Sealed Miniature Rocker and Lever Handle Switches

TERMINATIONS

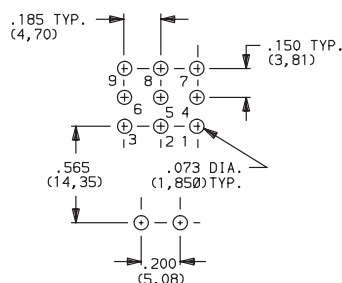


A RIGHT ANGLE, PC THRU-HOLE



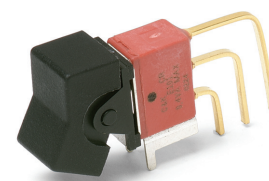
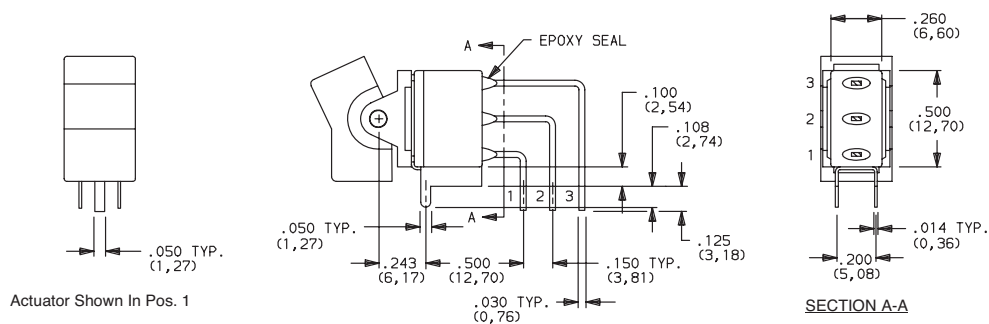
E301J1ABE2
Horizontal Actuation
3PDT

PC MOUNTING



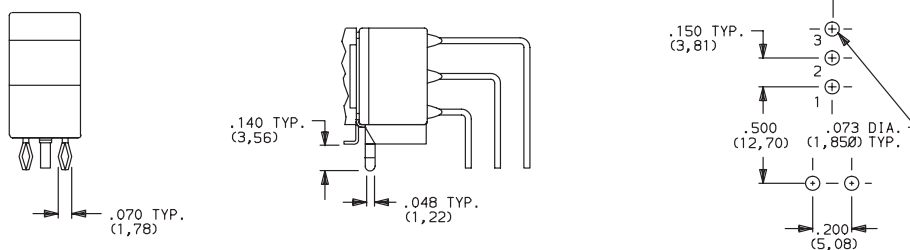
NOTE: Terminal bend radii and lead-in manufacturing option.
Available actuators, see pages G-27 thru G-29.

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



E101J1AV2BE2
Vertical Actuation
SPDT

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



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

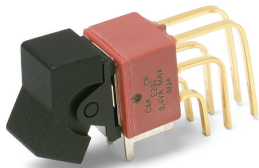
www.ckswitches.com

E Series Sealed Miniature Rocker and Lever Handle Switches

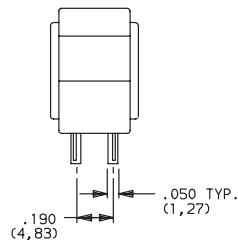
TERMINATIONS



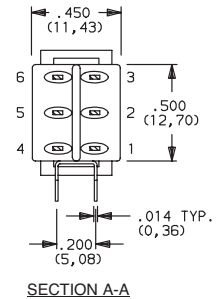
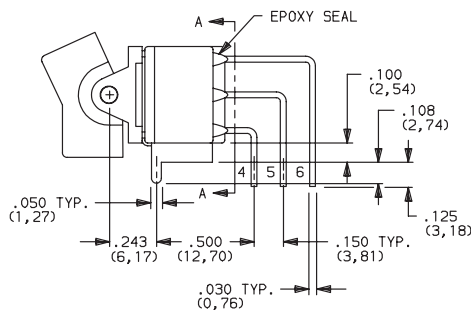
AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE,
.150" PITCH



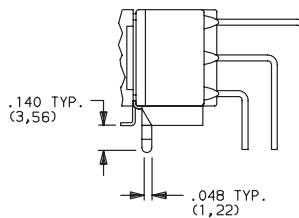
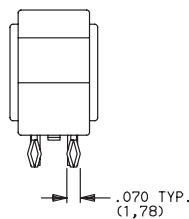
E201J1AV2BE2
Vertical Actuation
DPDT



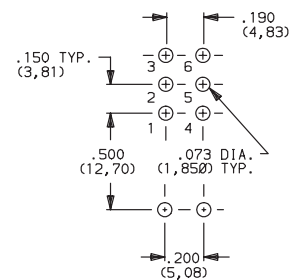
Actuator Shown In Pos. 1



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

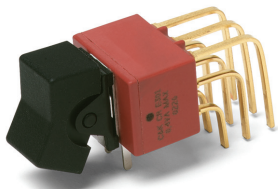


PC MOUNTING

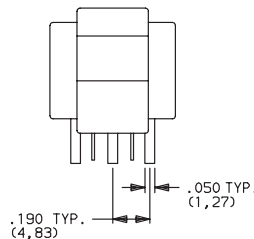


NOTE: Terminal bend radii and lead-in manufacturing option.
Available actuators, see pages G-27 thru G-29.

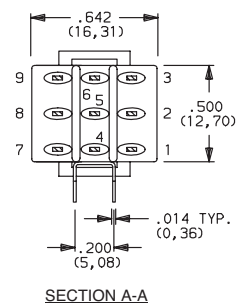
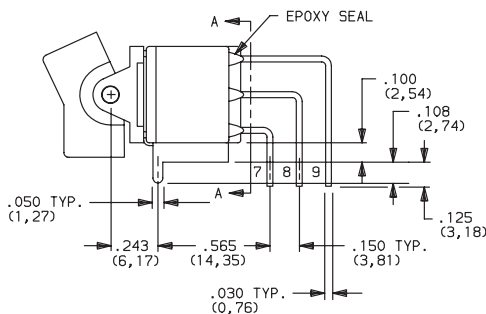
AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE,
.150" PITCH



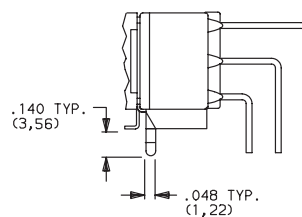
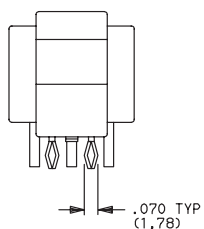
E301J1AV2BE2
Vertical Actuation
3PDT



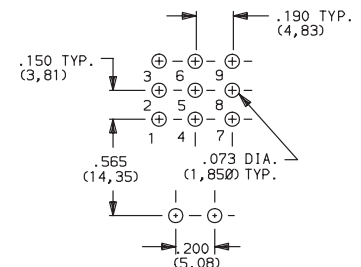
Actuator Shown In Pos. 1



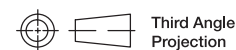
AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,
.150" PITCH



PC MOUNTING



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



Third Angle
Projection

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

C&K

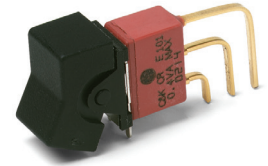
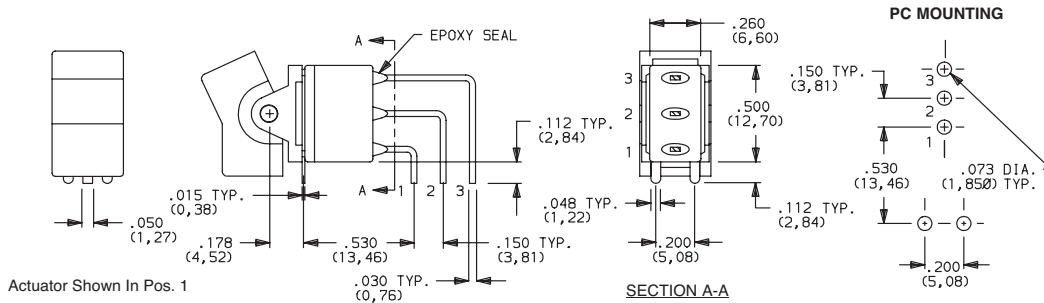


E Series Sealed Miniature Rocker and Lever Handle Switches

TERMINATIONS



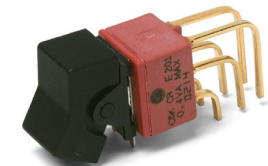
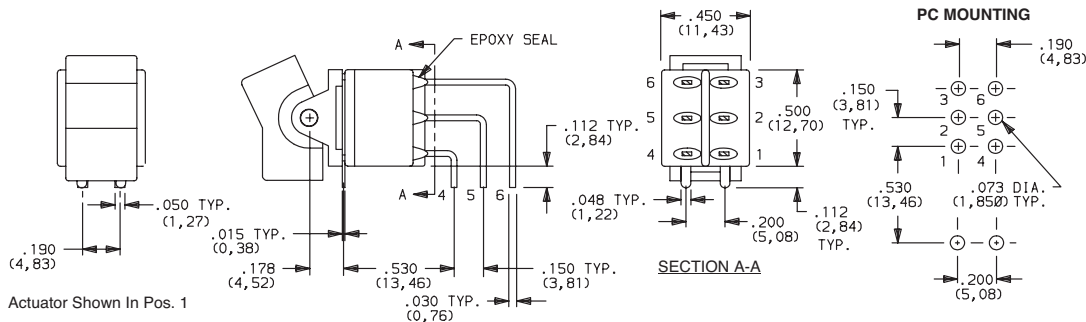
V5 VERTICAL RIGHT ANGLE, PC THRU-HOLE,
.150" PITCH



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.

Rocker



G

C&K



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

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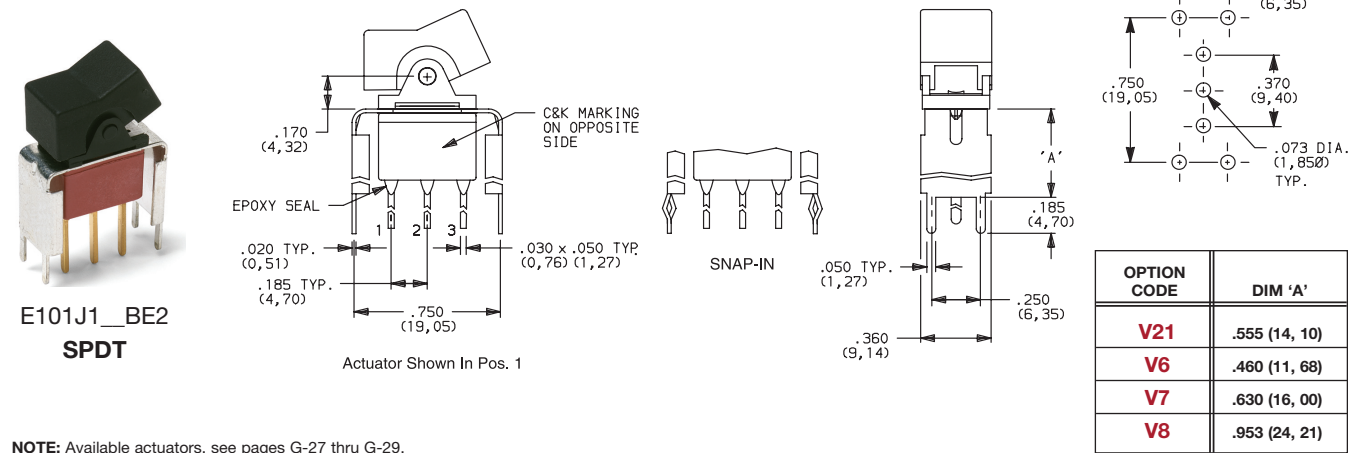
E Series

Sealed Miniature Rocker and Lever Handle Switches

TERMINATIONS

V6, V7, V8 VERTICAL MOUNT, V-BRACKET

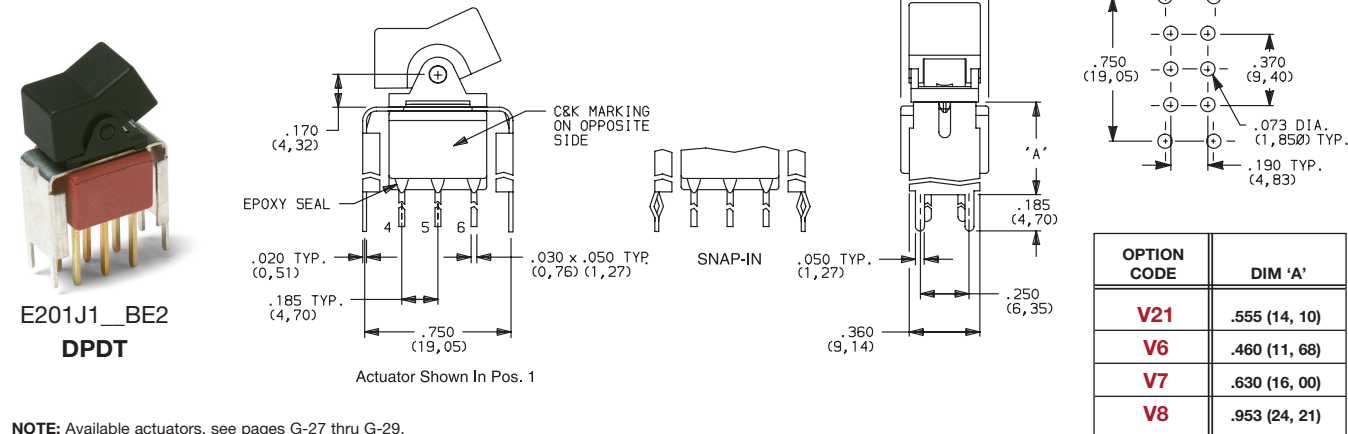
V21 VERTICAL MOUNT, V-BRACKET, SNAP-IN



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

V6, V7, V8 VERTICAL MOUNT, V-BRACKET

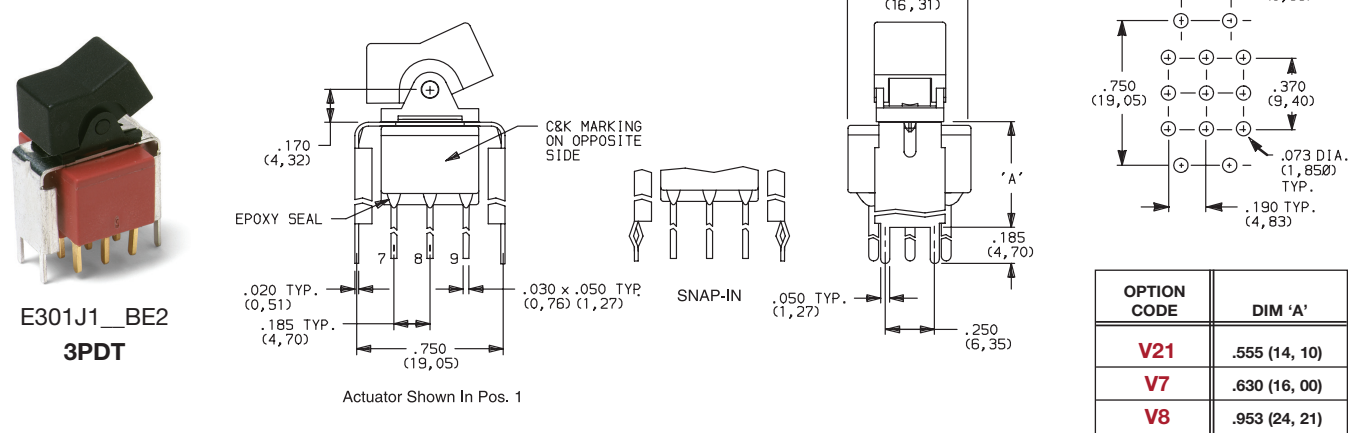
V21 VERTICAL MOUNT, V-BRACKET, SNAP-IN



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

V7, V8 VERTICAL MOUNT, V-BRACKET

V21 VERTICAL MOUNT, V-BRACKET, SNAP-IN



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



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

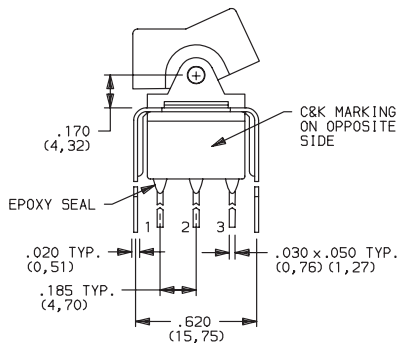


E Series Sealed Miniature Rocker and Lever Handle Switches

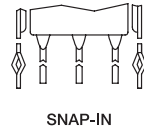
TERMINATIONS

V3, V4 VERTICAL MOUNT, V-BRACKET

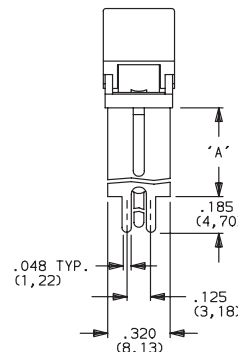
V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



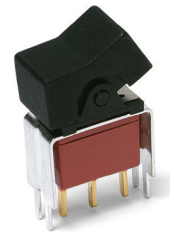
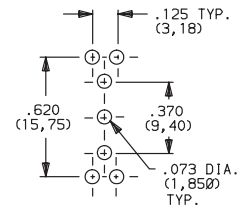
Actuator Shown In Pos. 1



SNAP-IN



PC MOUNTING



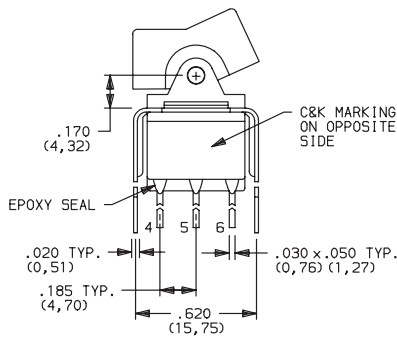
E101J1_BE2
SPDT

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

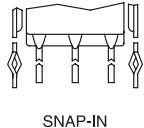
NOTE: Available actuators, see pages G-27 thru G-29.

V3, V4 VERTICAL MOUNT, V-BRACKET

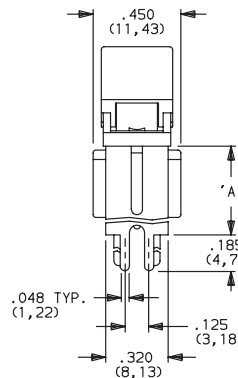
V31 VERTICAL MOUNT, V-BRACKET, SNAP-IN



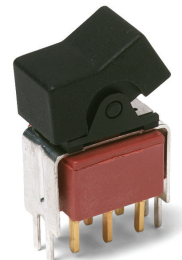
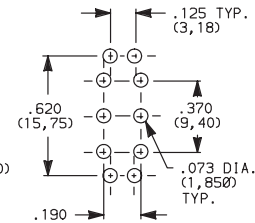
Actuator Shown In Pos. 1



SNAP-IN



PC MOUNTING



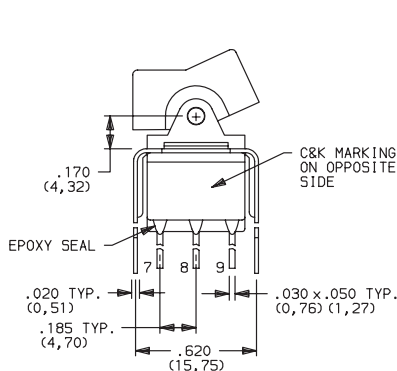
E201J1_BE2
DPDT

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

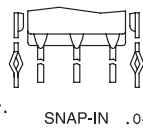
NOTE: Available actuators, see pages G-27 thru G-29.

V4 VERTICAL MOUNT, V-BRACKET

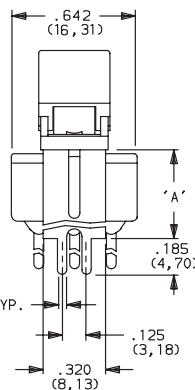
VERTICAL MOUNT, V-BRACKET, SNAP-IN



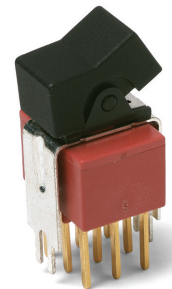
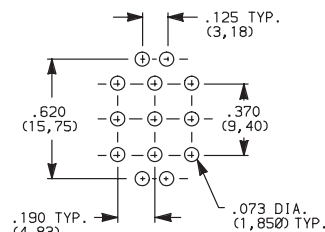
Actuator Shown In Pos. 1



SNAP-IN



PC MOUNTING



E301J1_BE2
3PDT

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

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



Third Angle
Projection

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

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Rocker



G

C&K

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.

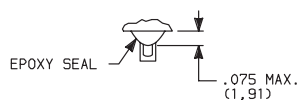
All models with all options when ordered with G, Q, S & R contact material.

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

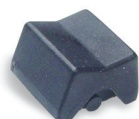


PART NO.

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

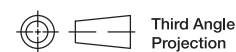


PART NO.

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



E Series Sealed Miniature Rocker and Lever Handle Switches

AVAILABLE HARDWARE

Fits Z3 Termination
female connector



PART NO.
530100000

Available in loose pieces.

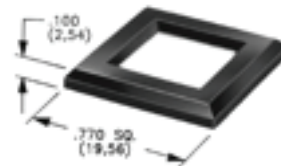
Frame for J11, J21 Actuators



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

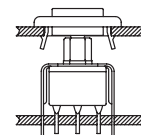
PART NO.

486802000 BLACK

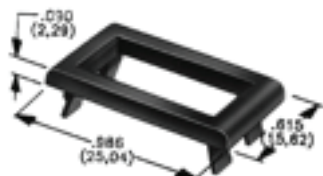
NOTE: Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog.
Other colors available, consult Customer Service Center.

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.

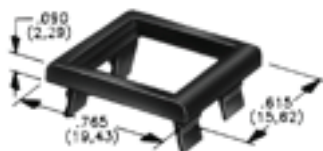
PART NO.
452902263
452903000

PART NO.
452702263
452703000

PART NO.
452802263
452803000

PART NO.
452602263 BLACK
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.
432502263
432503000

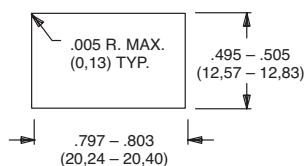
PART NO.
432602263
432603000

PART NO.
432702263
432703000

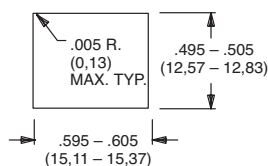
PART NO.
432802263 BLACK
432803000 RED

PANEL MOUNTING

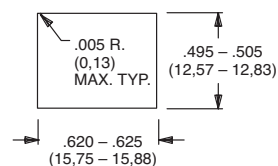
For part numbers
4529xxxxx, 4527xxxxx,
4528xxxxx, 4526xxxxx



For part numbers
4325xxxxx, 4326xxxxx



For part numbers
4327xxxxx, 4328xxxxx



Third Angle
Projection

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

Rocker



G

C&K

E Series

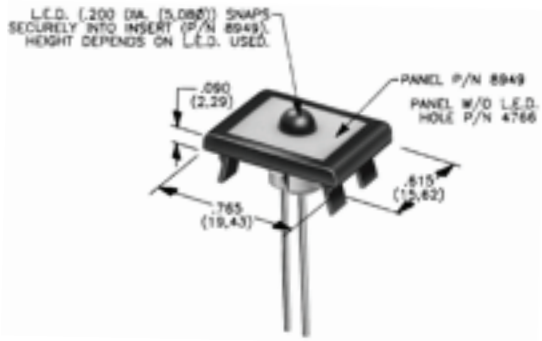
Sealed Miniature Rocker and Lever Handle Switches

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.