

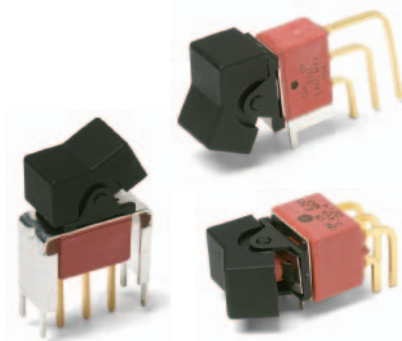
# E Series Sealed Miniature Rocker and Lever Handle Switches

## 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-37 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: 10<sup>9</sup> 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-37 for additional contact materials.

TERMINAL SEAL: Epoxy.

HARDWARE: Nut, Screw & Lockwasher: Stainless steel.

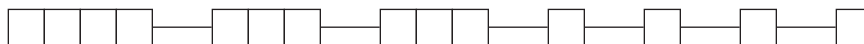
Standoff: Nylon standard, aluminum available, consult Customer Service Center.

**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-27 through G-39. 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



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		N/A		
	E103	ON	OFF	ON				
	E105	MOM.	OFF	MOM.	2-3	OPEN	2-1	
	E107	ON	OFF	MOM.				
	E108	ON	NONE	MOM.		N/A		
SPDT								
		Part number shown: E101J1ZBE2			Terminal Nos. For Reference Only			
DP	E201	ON	NONE	ON		N/A		
	E203	ON	OFF	ON				
	E205	MOM.	OFF	MOM.	2-3,5-6	OPEN	2-1,5-4	
	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			Terminal Nos. For Reference Only			

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.



Third Angle  
Projection  
*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	<b>E301</b>	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.

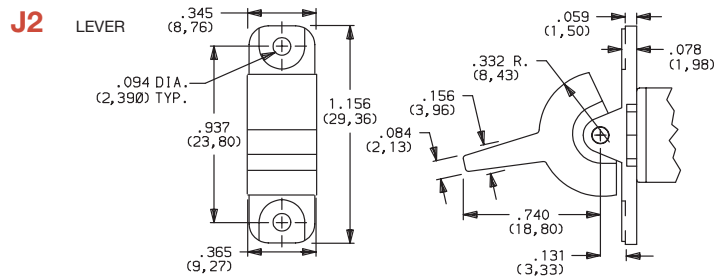
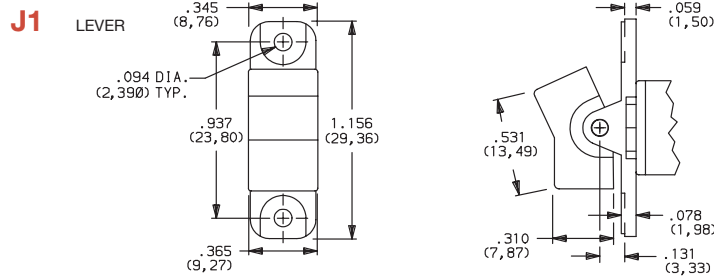
All models with all options when ordered with G, Q, R and S contact material.

## ACTUATOR-PANEL REAR MOUNT

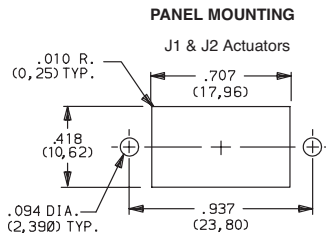
OPTION CODE	ACTUATOR COLOR
<b>2</b>	BLACK
<b>3</b>	RED

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-37. Hardware available separately, see Technical Data section of this catalog. J1, J2 actuators available with C, Z or Z3 terminations.



Rocker



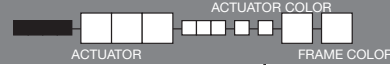
Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

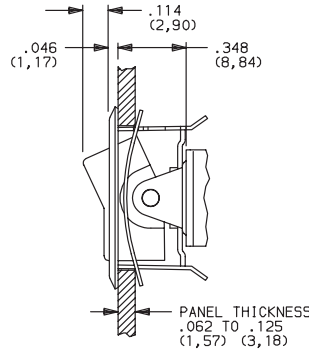
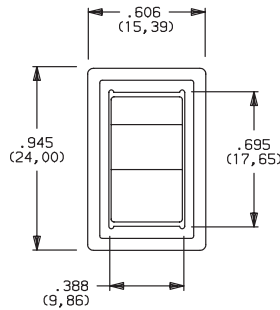


# E Series Sealed Miniature Rocker and Lever Handle Switches

## ACTUATOR-REAR MOUNT



### J11 ROCKER WITH FRAME

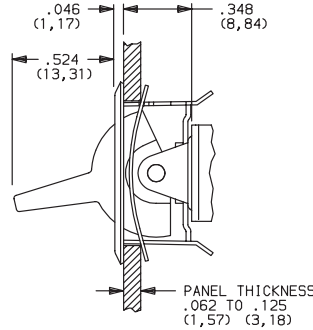
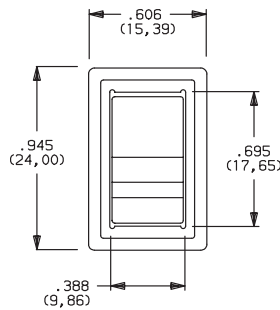


OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

OPTION CODE	FRAME COLOR
2	BLACK

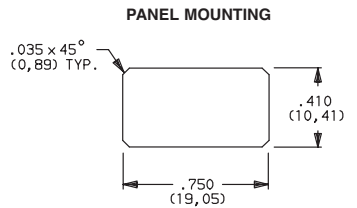
**NOTE:** This option has reduced anti-static capability.

### J21 LEVER WITH FRAME



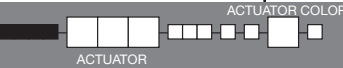
Actuator finish: Matte, frame finish: gloss. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**NOTE:** Internal o-ring actuator seal standard. Actuators & frames available separately, see page G-37. Hardware available separately, see Technical Data section of this catalog. N, J11 & J21 actuators available with C, Z & Z3 terminations.

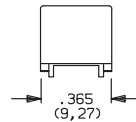
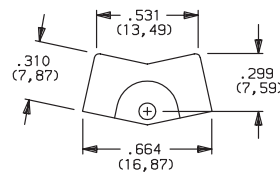


**NOTE:** This option has reduced anti-static capability.

## ACTUATOR-PC MOUNT

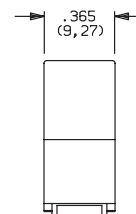
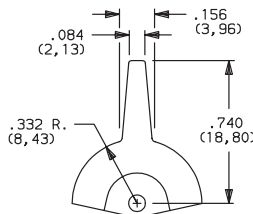


### J1 ROCKER



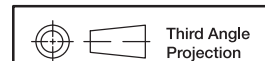
OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

### 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-rings actuator seal standard. Actuators available separately, see page G-37. 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



OPTION CODE	ACTUATOR COLOR
2	BLACK
3	RED

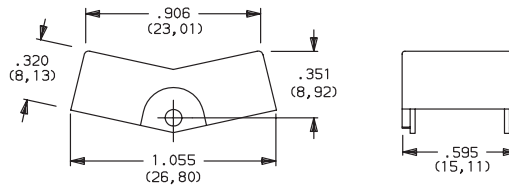
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**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-37. Hardware available separately, see Technical Data section of this catalog.

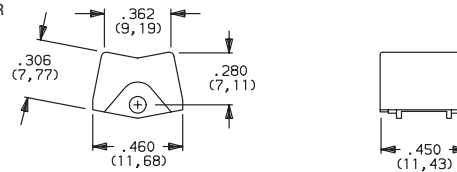
J3 actuators available with AV2, AV3 & V2-V61 terminations. Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

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

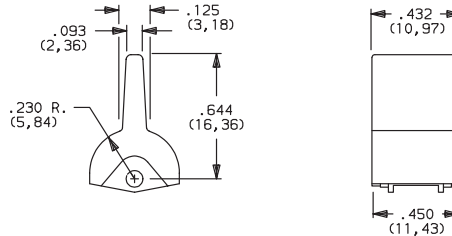
### J3 ROCKER



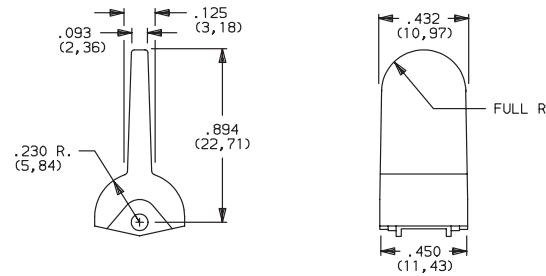
### J50 ROCKER



### J60 LEVER



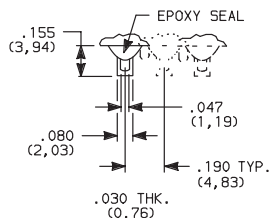
### J90 LEVER



## TERMINATIONS

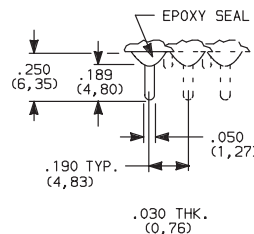


### Z SOLDER LUG



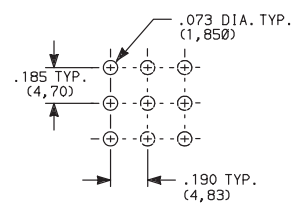
Not available with P, S, & R contact materials.  
Available actuators, see page G-37.

### C PC THRU-HOLE



### SPDT thru 3PDT

### PC MOUNTING



Third Angle Projection

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



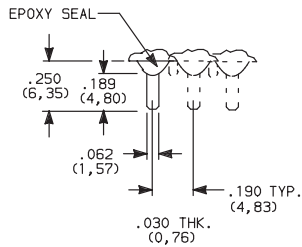
SPDT thru 3PDT



# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

### Z3 QUICK CONNECT



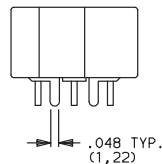
Not available with P, S, & R contact materials. Available actuators, see pages G-28 thru G-30. Mating quick connector available; order part number 530100000, page G-38.

### SPDT thru 3PDT

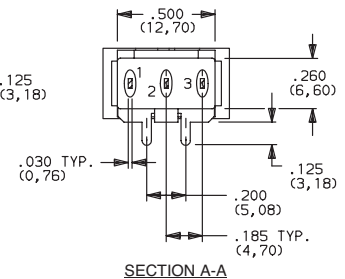
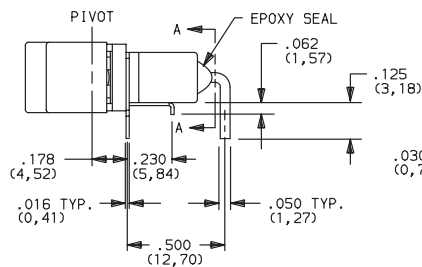
#### A RIGHT ANGLE, PC THRU-HOLE



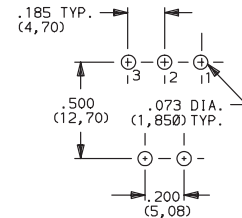
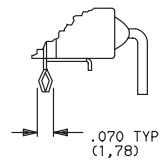
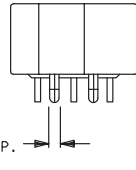
**E101J1ABE2**  
Horizontal Actuation  
SPDT



Actuator Shown In Pos. 1



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



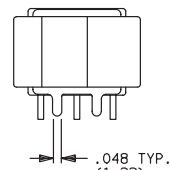
**NOTE:** Not available with J3, J50, J60 and J90 actuators. Available actuators, see pages G-28 thru G-30. Terminal bend radii and lead-in manufacturing option.

**NOTE:** PC mounting pattern must clear switch support leg.

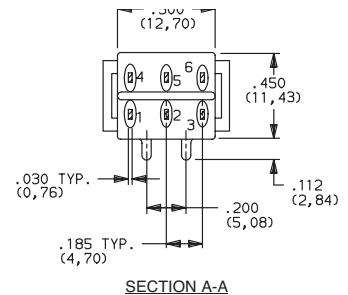
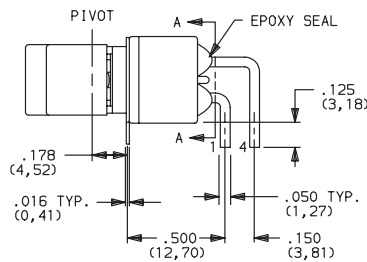
#### A RIGHT ANGLE, PC THRU-HOLE



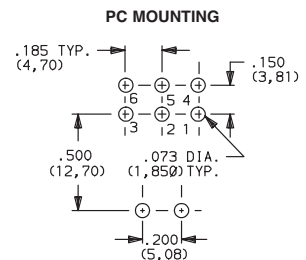
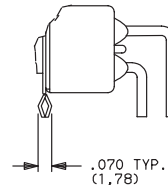
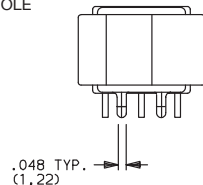
**E201J1ABE2**  
Horizontal Actuation  
DPDT



Actuator Shown In Pos. 1



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



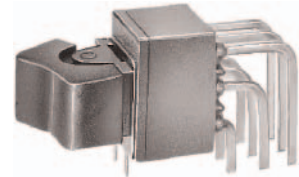
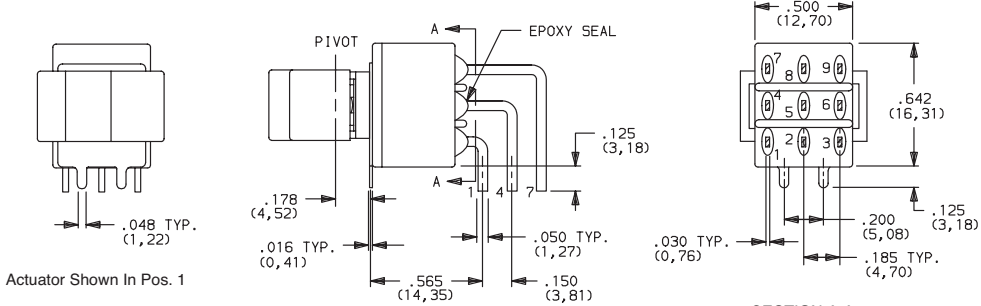
**NOTE:** Not available with J3 actuator. Available actuators, see pages G-28 and G-30. Terminal bend radii and lead-in manufacturing option.



# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

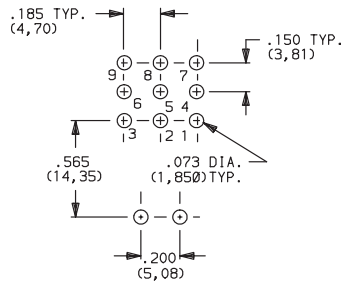
### A RIGHT ANGLE, PC THRU-HOLE



**E301J1ABE2**  
Horizontal Actuation  
**3PDT**

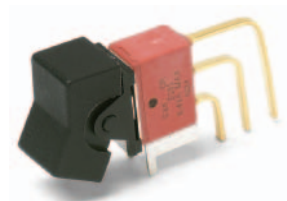
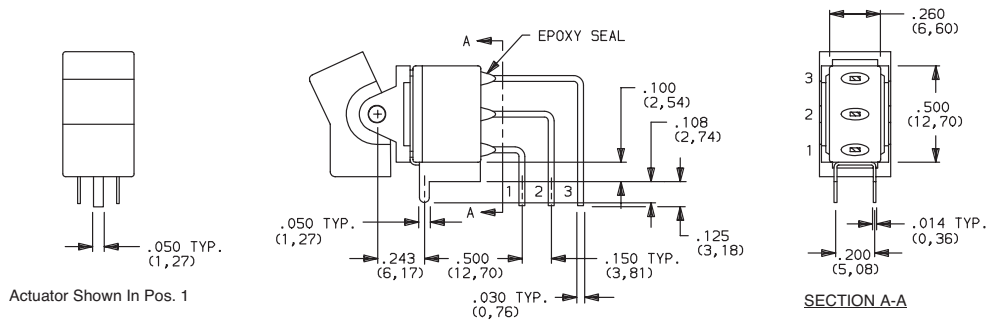
SECTION A-A

#### PC MOUNTING



**NOTE:** Terminal bend radii and lead-in manufacturing option. Available actuators, see pages G-28 and G-30.

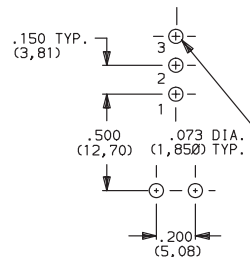
### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



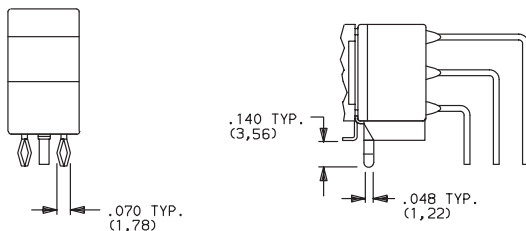
**E101J1AV2BE2**  
Vertical Actuation  
**SPDT**

SECTION A-A

#### PC MOUNTING



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



Rocker

**NOTE:** Terminal bend radii and lead-in manufacturing option. Available actuators, see pages G-28 and G-30.



Third Angle Projection

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

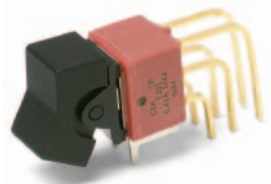




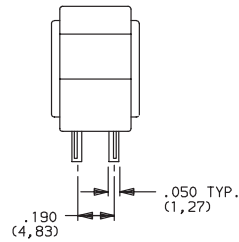
# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

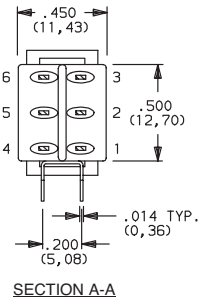
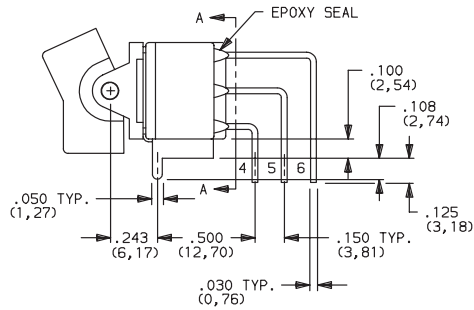
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



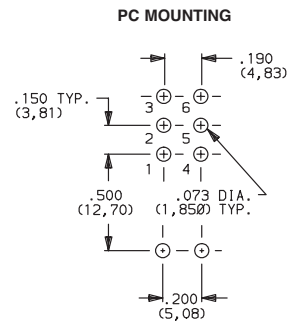
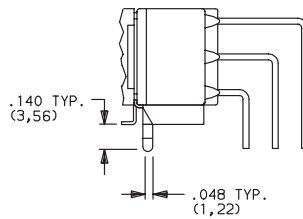
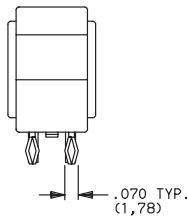
**E201J1AV2BE2**  
Vertical Actuation  
**DPDT**



Actuator Shown In Pos. 1

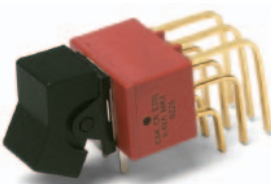


**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH

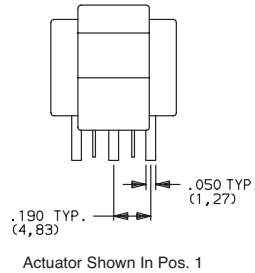


**NOTE:** Terminal bend radii and lead-in manufacturing option. Available actuators, see pages G-28 and G-30.

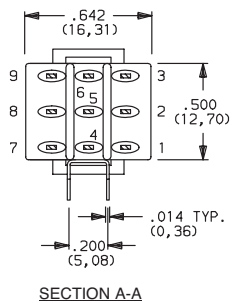
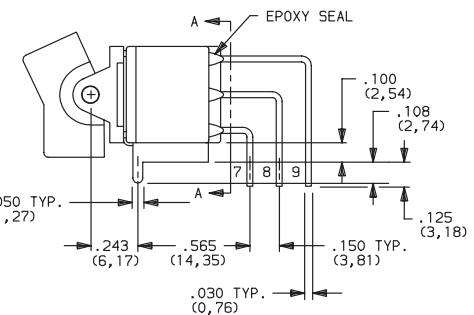
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



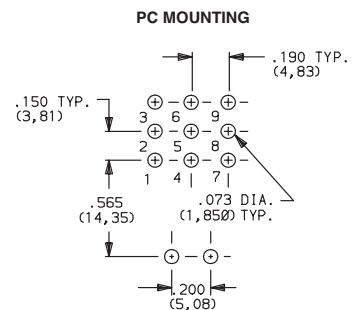
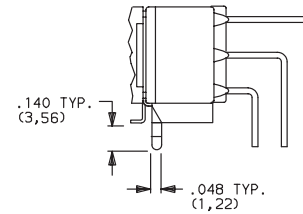
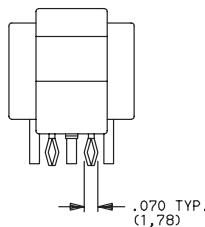
**E301J1AV2BE2**  
Vertical Actuation  
**3PDT**



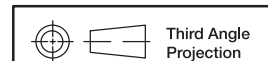
Actuator Shown In Pos. 1



**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-28 and G-30.



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

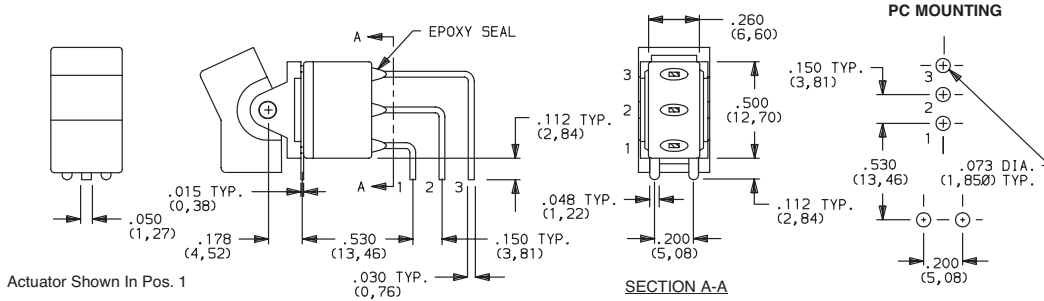




# E Series Sealed Miniature Rocker and Lever Handle Switches

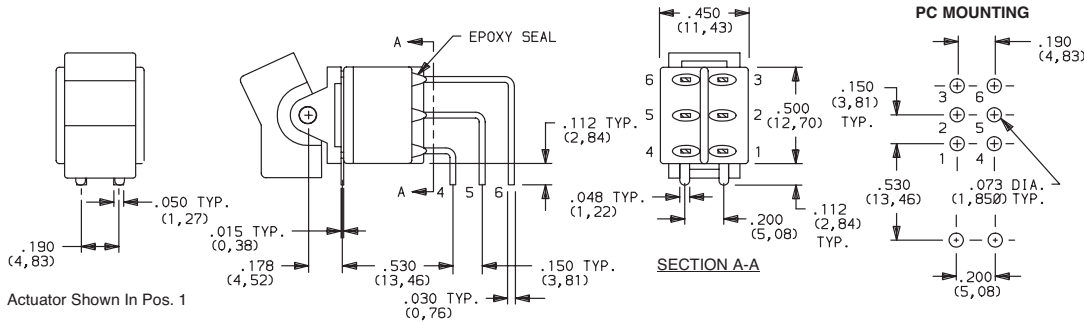
## TERMINATIONS

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



**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-28 and G-30.

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



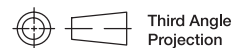
**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-28 and G-30.

Rocker



G

**C&K**



Third Angle Projection

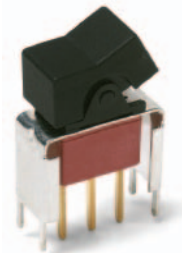
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# E Series Sealed Miniature Rocker and Lever Handle Switches

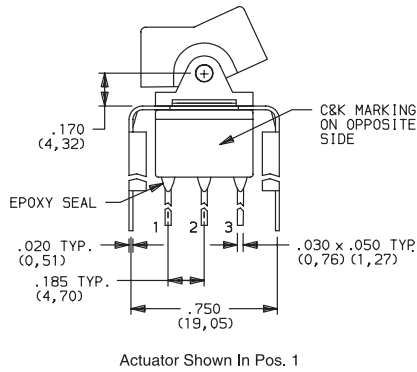
## TERMINATIONS

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

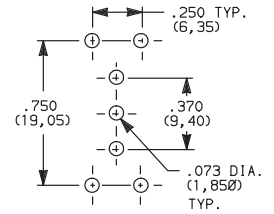
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



**E101J1\_BE2**  
**SPDT**



### PC MOUNTING



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

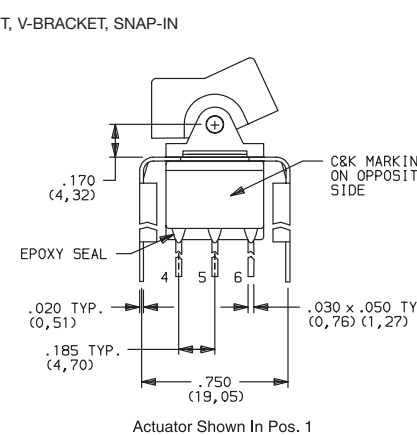
**NOTE:** Available actuators, see pages G-28 and G-30.

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

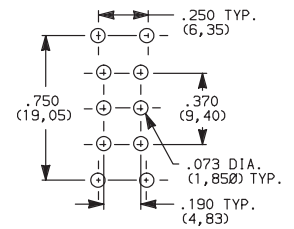
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



**E201J1\_BE2**  
**DPDT**



### PC MOUNTING



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

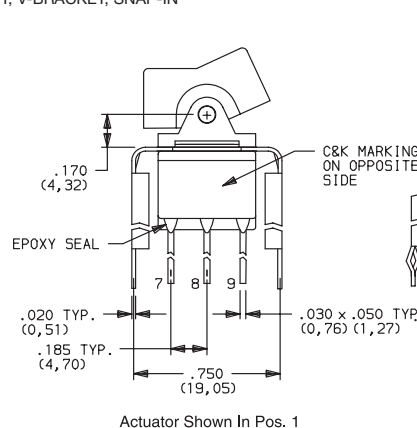
**NOTE:** Available actuators, see pages G-28 and G-30.

**V7, V8** VERTICAL MOUNT, V-BRACKET

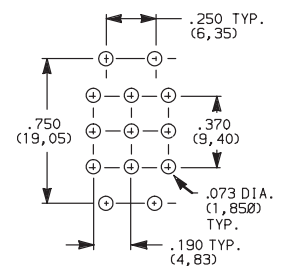
**V21** VERTICAL MOUNT, V-BRACKET, SNAP-IN



**E301J1\_BE2**  
**3PDT**



### PC MOUNTING



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

**NOTE:** Available actuators, see pages G-28 and G-30.



Third Angle Projection

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

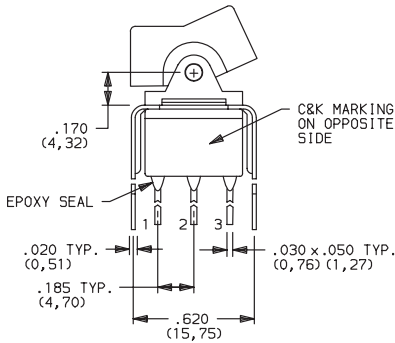


# E Series Sealed Miniature Rocker and Lever Handle Switches

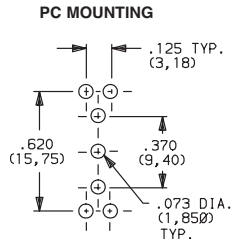
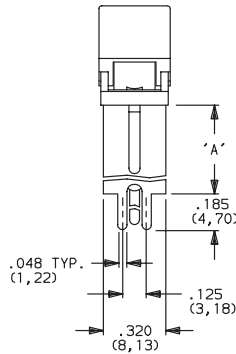
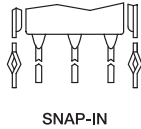
## TERMINATIONS

**V3, V4** VERTICAL MOUNT, V-BRACKET

**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



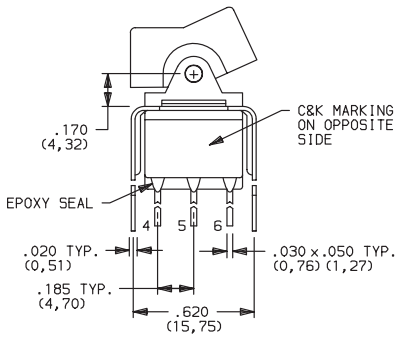
**E101J1\_BE2**  
**SPDT**

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

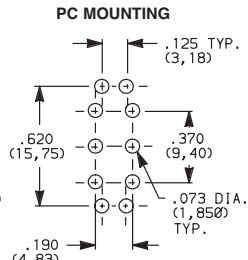
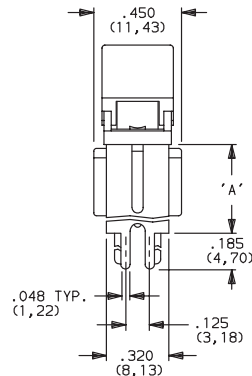
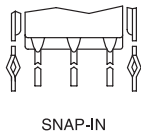
**NOTE:** Available actuators, see pages G-28 and G-30.

**V3, V4** VERTICAL MOUNT, V-BRACKET

**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



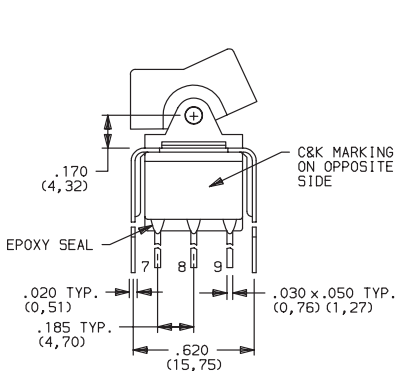
**E201J1\_BE2**  
**DPDT**

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

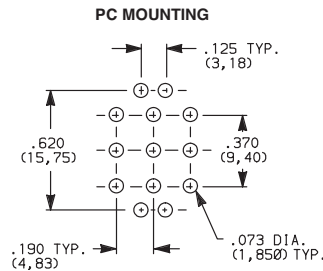
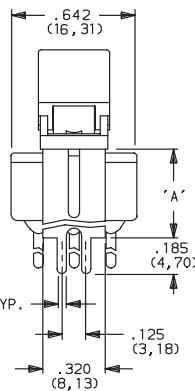
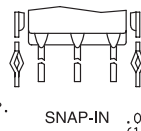
**NOTE:** Available actuators, see pages G-28 and G-30.

**V4** VERTICAL MOUNT, V-BRACKET

VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



**E301J1\_BE2**  
**3PDT**

OPTION CODE	DIM 'A'
<b>V41</b>	.630 (16,00)

Rocker

**NOTE:** Available actuators, see pages G-28 and G-30.



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



# E Series Sealed Miniature Rocker and Lever Handle Switches

## CONTACT MATERIAL

OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS	
<b>B</b>	GOLD <sup>1</sup>	GOLD <sup>1</sup>	LOW LEVEL/ DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
<b>P</b>		MATTE-TIN <sup>7</sup>		
<b>Q</b>	SILVER <sup>4,5</sup>	SILVER <sup>5</sup>	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.
<b>S</b>		MATTE-TIN <sup>6</sup>		
<b>G</b>	GOLD OVER SILVER <sup>2,3</sup>	GOLD <sup>3</sup>	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.
<b>R</b>		MATTE-TIN <sup>6</sup>		

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

<sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.

<sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>4</sup> END CONTACTS: Coin silver, silver plated.

<sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, with gold flash over silver plate. Or copper alloy, silver plated.

<sup>6</sup> 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 **c** **AL** **us** 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

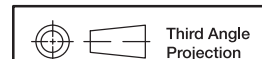
J90 Actuator



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.



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**

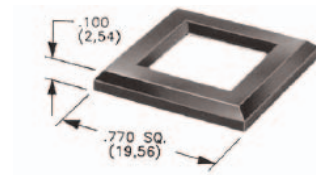
Available in loose pieces.

Frame for J11, J21 Actuators



PART NO.  
**764500746** BLACK ENAMEL  
**764601106** RETAINING SPRING  
Material: Spring Steel

J50, J60 & J90 Actuators

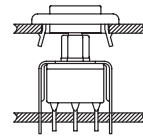


MATTE	GLOSS
PART NO.	PART NO.
<b>486702000</b>	<b>486802000</b> BLACK
Material: Nylon	
Finish: Matte or Gloss	

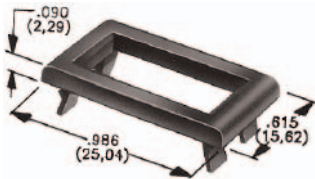
**NOTE:** Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog. Other colors available, consult Customer Service Center.

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

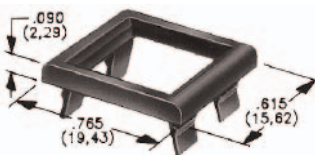


J1 & J2 Actuators



.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.
<b>452902263</b>	<b>452702263</b>	<b>452802263</b>	<b>452602263</b> BLACK
<b>452903000</b>	<b>452703000</b>	<b>452803000</b>	<b>452603000</b> RED

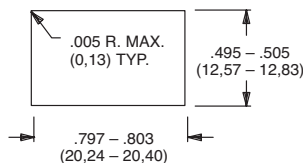
J50, J60 & J90 Actuators



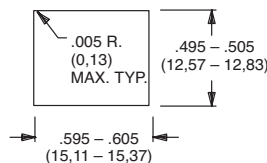
.047" (1,19) PANEL THK.	.062" (1,57) PANEL THK.	.090" (2,29) PANEL THK.	.125" (3,18) PANEL THK.
PART NO.	PART NO.	PART NO.	PART NO.
<b>432502263</b>	<b>432602263</b>	<b>432702263</b>	<b>432802263</b> BLACK
<b>432503000</b>	<b>432603000</b>	<b>432703000</b>	<b>432803000</b> RED

### PANEL MOUNTING

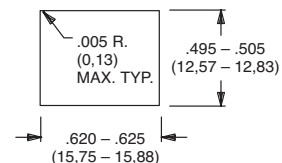
For part numbers  
4529xxxxx, 4527xxxxx,  
4528xxxxx, 4526xxxxx



For part numbers  
4325xxxxx, 4326xxxxx



For part numbers  
4327xxxxx, 4328xxxxx



Third Angle Projection

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



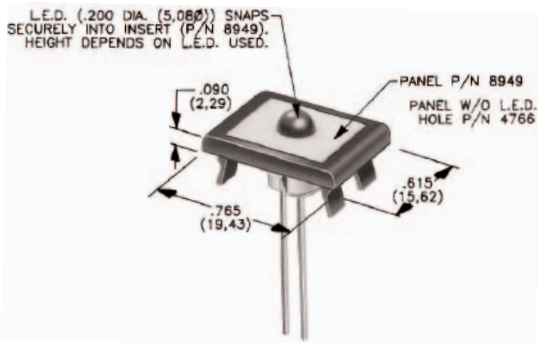
# E Series Sealed Miniature Rocker and Lever Handle Switches

## 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.**



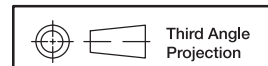
**PANEL INSERT  
WITH HOLE FOR LED**

**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.



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

