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

### 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 mΩ typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.
- INSULATION RESISTANCE: 10³ 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: –30ºC to 85ºC.

### Typical Applications
- Telecommunications
- Instrumentation
- Computers & peripherals

### 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.

**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.
## E Series
Sealed Miniature Rocker and Lever Handle Switches

### SWITCH FUNCTION

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>CONNECTED TERMINALS</th>
<th>SCHEMATIC</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SP</strong></td>
<td><strong>SWITCH FUNCTION</strong></td>
<td><strong>CONNECTED TERMINALS</strong></td>
<td><strong>SCHEMATIC</strong></td>
</tr>
<tr>
<td></td>
<td>POS. 1</td>
<td>POS. 2</td>
<td>POS. 3</td>
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<tr>
<td>E101</td>
<td>ON</td>
<td>NONE</td>
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<td>E103</td>
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</tr>
<tr>
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<td>MOM.</td>
<td>OFF</td>
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</tr>
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<tr>
<td>E108</td>
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</tr>
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<td></td>
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<tr>
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<td>ON</td>
<td>NONE</td>
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</tr>
<tr>
<td>E203</td>
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<td>OFF</td>
<td>ON</td>
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<tr>
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<tr>
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<td>MOM.</td>
</tr>
<tr>
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<td>NONE</td>
<td>MOM.</td>
</tr>
<tr>
<td>E211**</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>E213**</td>
<td>ON</td>
<td>ON</td>
<td>MOM.</td>
</tr>
<tr>
<td>E215**</td>
<td>MOM.</td>
<td>ON</td>
<td>MOM.</td>
</tr>
<tr>
<td><strong>DP</strong></td>
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<tr>
<td>E101</td>
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</tr>
<tr>
<td>E103</td>
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<td>E105</td>
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<tr>
<td>E107</td>
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<tr>
<td>E108</td>
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<td>NONE</td>
<td>MOM.</td>
</tr>
<tr>
<td>E211**</td>
<td>ON</td>
<td>ON</td>
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</tr>
<tr>
<td>E213**</td>
<td>ON</td>
<td>ON</td>
<td>MOM.</td>
</tr>
<tr>
<td>E215**</td>
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<td>ON</td>
<td>MOM.</td>
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<td>E201</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
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<td>E203</td>
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<td>OFF</td>
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<tr>
<td>E205</td>
<td>MOM.</td>
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<td>E207</td>
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<td>OFF</td>
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</tr>
<tr>
<td>E208</td>
<td>ON</td>
<td>NONE</td>
<td>MOM.</td>
</tr>
<tr>
<td>E211**</td>
<td>ON</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>E213**</td>
<td>ON</td>
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</tr>
<tr>
<td>E215**</td>
<td>MOM.</td>
<td>ON</td>
<td>MOM.</td>
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</tbody>
</table>

### Footnotes:
- **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.

---

dimensions are shown: inches (mm)
specifications and dimensions subject to change

G-27

www.ckswitches.com
**E Series**

Sealed Miniature Rocker and Lever Handle Switches

<table>
<thead>
<tr>
<th>NO. POLES</th>
<th>MODEL NO.</th>
<th>SWITCH FUNCTION</th>
<th>CONNECTED TERMINALS</th>
<th>SCHEMATIC</th>
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</thead>
<tbody>
<tr>
<td>3P</td>
<td>E301</td>
<td>ON NONE ON</td>
<td>2-3.5-6.8-9 N/A</td>
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3PDT

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<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>ACTUATOR COLOR</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>BLACK</td>
</tr>
<tr>
<td>3</td>
<td>RED</td>
</tr>
</tbody>
</table>
```

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, 2 or 2Z terminations.

---

**ACTUATOR–PANEL REAR MOUNT**

**Option Code**

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Actuator Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>BLACK</td>
</tr>
<tr>
<td>3</td>
<td>RED</td>
</tr>
</tbody>
</table>

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, 2 or 2Z terminations.

---

**Schematic**

**Part number shown:** E301J12BE2

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.
E Series
Sealed Miniature Rocker and Lever Handle Switches

ACTUATOR–REAR MOUNT

J11 ROCKER WITH FRAME

ACTUATOR–PC MOUNT

J1 ROCKER

J2 LEVER

Specifications and dimensions subject to change

www.ckswitches.com

NOTE: This option has reduced anti-static capability.

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


NOTE: This option has reduced anti-static capability.

ACTUATOR COLOR

FRAME COLOR

Option Code ACTUATOR COLOR

2 BLACK

3 RED

Option Code FRAME COLOR

2 BLACK

ACTUATOR COLOR

ACTUATOR COLOR

Option Code ACTUATOR COLOR

2 BLACK

3 RED

OPTION CODE

ACTUATOR COLOR

2 BLACK

3 RED

Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

www.ckswitches.com

G–29

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.
Sealed Miniature Rocker and Lever Handle Switches

ACTUATOR–PC MOUNT

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, 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.

TERMINATIONS

Z SOLDER LUG

C PC THRU-HOLE

SPDT thru 3PDT


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

Z3 QUICK CONNECT

TERMINATIONS

SPDT thru 3PDT

A RIGHT ANGLE, PC THRU-HOLE

E101J1ABE2
Horizontal Actuation
SPDT

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


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

Sealed Miniature Rocker and Lever Handle Switches

A  RIGHT ANGLE, PC THRU-HOLE

Actuator Shown In Pos. 1

TERMINATIONS

PC MOUNTING


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

Actuator Shown In Pos. 1

PC MOUNTING


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

PC MOUNTING


**E Series**

Sealed Miniature Rocker and Lever Handle Switches

### TERMINATIONS

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

E201J1AV2BE2
Vertical Actuation
3PDT

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

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

E301J1AV2BE2
Vertical Actuation

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

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

Actuator Shown In Pos. 1

PC MOUNTING


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

Actuator Shown In Pos. 1

PC MOUNTING


E101J1V5BE2
Vertical Actuation
SPDT

E201J1V5BE2
Vertical Actuation
DPDT
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

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

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

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

Dimensions are shown: Inches (mm)
Specifications and dimensions subject to change
www.ckswitches.com
Sealed Miniature Rocker and Lever Handle Switches

**TERMINATIONS**

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

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

**TERMINATIONS**

**PC MOUNTING**

**Actuator Shown In Pos. 1**

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

**OPTION CODE**

<table>
<thead>
<tr>
<th>OPTION CODE</th>
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</thead>
<tbody>
<tr>
<td>V3, V31</td>
<td>.460 (11.68)</td>
</tr>
<tr>
<td>V4</td>
<td>.630 (16.00)</td>
</tr>
</tbody>
</table>

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

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

**TERMINATIONS**

**PC MOUNTING**

**Actuator Shown In Pos. 1**

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

**OPTION CODE**

<table>
<thead>
<tr>
<th>OPTION CODE</th>
<th>DIM 'A'</th>
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<tbody>
<tr>
<td>V3, V31</td>
<td>.460 (11.68)</td>
</tr>
<tr>
<td>V4</td>
<td>.630 (16.00)</td>
</tr>
</tbody>
</table>

**V4** VERTICAL MOUNT, V-BRACKET

**TERMINATIONS**

**PC MOUNTING**

**Actuator Shown In Pos. 1**

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

**OPTION CODE**

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E Series
Sealed Miniature Rocker and Lever Handle Switches

CONTACT MATERIAL

<table>
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<tr>
<th>OPTION CODE</th>
<th>CONTACT MATERIAL</th>
<th>TERMINAL PLATING</th>
<th>RATINGS</th>
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<tr>
<td>B</td>
<td>GOLD 1</td>
<td>LOW LEVEL/DRY CIRCUIT</td>
<td>0.4 VA MAX. @ 20 V AC OR DC MAX.</td>
</tr>
<tr>
<td>P</td>
<td>SILVER 4.5</td>
<td>POWER E1XX &amp; 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.</td>
<td></td>
</tr>
<tr>
<td>Q</td>
<td>SILVER 5</td>
<td>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.</td>
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</tr>
<tr>
<td>S</td>
<td>MATTE-TIN 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>GOLD OVER 2.3</td>
<td>LOW LEVEL/DRY CIRCUIT OR POWER</td>
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</tr>
<tr>
<td>R</td>
<td>SILVER 2.3</td>
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<td></td>
</tr>
</tbody>
</table>

* 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

<table>
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<td>760503000</td>
<td>766602263</td>
<td>766603000</td>
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J3 Actuator

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J1, J11 Actuators

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J50 Actuator

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J60 Actuator

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</table>

J90 Actuator

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

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E Series
Sealed Miniature Rocker and Lever Handle Switches

AVAILABLE HARDWARE

Fits Z3 Termination female connector

Frame for J11, J21 Actuators

J50, J60 & J90 Actuators

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>BLACK ENAMEL</th>
<th>RETAINING SPRING</th>
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<td>764601106</td>
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Material: Spring Steel

PART NO. MATTE GLOSS
486702000 486802000

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

<table>
<thead>
<tr>
<th>PANEL THK.</th>
<th>PART NO.</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>.047” (1,19)</td>
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<td>452903000</td>
</tr>
<tr>
<td>.062” (1,57)</td>
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<td>452703000</td>
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<tr>
<td>.090” (2,29)</td>
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<td>452803000</td>
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<tr>
<td>.125” (3,18)</td>
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J50, J60 & J90 Actuators

<table>
<thead>
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<th>PART NO.</th>
<th>PART NO.</th>
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<tr>
<td>.047” (1,19)</td>
<td>432502263</td>
<td>432503000</td>
</tr>
<tr>
<td>.062” (1,57)</td>
<td>432602263</td>
<td>432603000</td>
</tr>
<tr>
<td>.090” (2,29)</td>
<td>432702263</td>
<td>432703000</td>
</tr>
<tr>
<td>.125” (3,18)</td>
<td>432802263</td>
<td>432803000</td>
</tr>
</tbody>
</table>

For part numbers 4529xxxx, 4527xxxx, 4526xxxx

For part numbers 4325xxxx, 4326xxxx

For part numbers 4327xxxx, 4328xxxx

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

www.ckswitches.com
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. 432XXXXX) 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.**

<table>
<thead>
<tr>
<th>PANEL INSERT WITH HOLE FOR LED</th>
<th>BLANK PANEL INSERT WITHOUT HOLE FOR LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>PART NO.</td>
<td>PART NO.</td>
</tr>
<tr>
<td>894902000</td>
<td>476602000 BLACK</td>
</tr>
<tr>
<td>894903000</td>
<td>476603000 RED</td>
</tr>
</tbody>
</table>

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