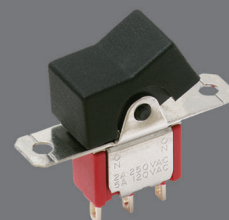


audio  
automotive  
aerospace  
communication devices  
consumer appliances  
consumer electronics  
datacom  
data storage  
handheld devices  
industrial  
industrial equipment  
instrumentation  
medical  
military  
mobile phones  
portable tools  
pumps & motors  
security alarms  
telecom  
test 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<br>10 Amps                                                                  | 4 Amps<br>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<br>2 Pole Power                                                           | Miniature<br>Illuminated<br>Power                                                   | Power                                                                               | Round                                                                               | Miniature<br>Power                                                                   | Power                                                                                 | Power                                                                                 |
| Poles/Throws        | DPST,<br>DPDT                                                                       | SPST,<br>DPST                                                                       | SPST, SPDT,<br>DPST                                                                 | SPST,<br>SPDT                                                                       | SPST, SPDT,<br>DPST                                                                  | SPST, SPDT                                                                            | SPST, SPDT                                                                            |
| Max. Current        | 3 Amps,<br>10 Amps                                                                  | 3 Amps,<br>10 Amps                                                                  | 16 Amps                                                                             | 10 Amps,<br>6 Amps                                                                  | 3 A, 6 A, 6.5 A,<br>10 A, 16 A                                                       | 10 Amps<br>16 Amps                                                                    | 10 Amps<br>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

|                            |                                                                                   |                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Rocker</b>              |  |  |
| <b>Series</b>              | <b>CM</b>                                                                         | <b>CN</b>                                                                         |
| <b>Switch Type</b>         | Power                                                                             | Power                                                                             |
| <b>Poles/Throws</b>        | SPDT, DPDT                                                                        | DPST, DPDT                                                                        |
| <b>Max. Current</b>        | 10 Amps<br>16 Amps                                                                | 10 Amps<br>16 Amps                                                                |
| <b>Washable</b>            |                                                                                   |                                                                                   |
| <b>Illuminated</b>         | •                                                                                 | •                                                                                 |
| <b>Panel Mount Options</b> |                                                                                   |                                                                                   |
| Front Mount                | Snap-in                                                                           | Snap-in                                                                           |
| Rear Mount                 |                                                                                   |                                                                                   |
| <b>PCB Mount Options</b>   |                                                                                   |                                                                                   |
| Vertical                   |                                                                                   |                                                                                   |
| Right Angle                |                                                                                   |                                                                                   |
| Surface Mount              |                                                                                   |                                                                                   |
| <b>Page No.</b>            | 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  $\Omega$  typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10<sup>9</sup>  $\Omega$  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

G



27 mar 17

G-4

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

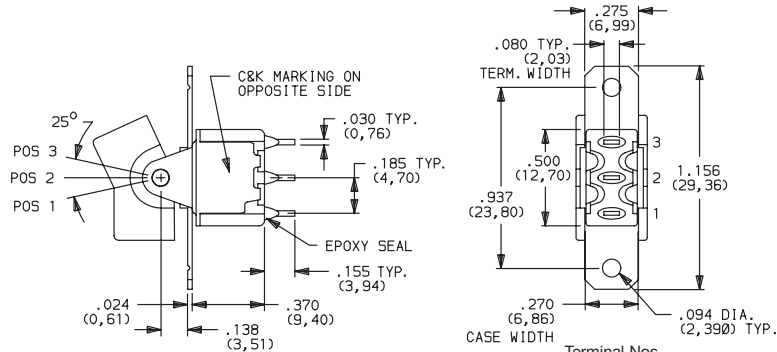
www.ckswitches.com

7000 Series  
Miniature Rocker & Lever Handle Switches

SWITCH FUNCTION

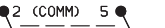
| NO.<br>POLES | MODEL NO. | UL**<br>MODEL<br>NO. | SWITCH FUNCTION                                                                   |                                                                                   |                                                                                   | 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           | 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                                                                                 |                                                                                     |

SPDT

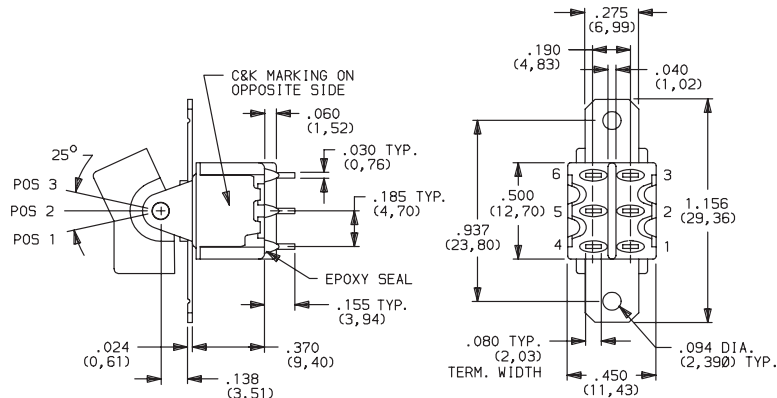


Part number shown: 7101J1ZQE2

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. |         | 2-3,5-4 |         |                                                                                       |  |  |
|    | 7208  | U28   | ON   | NONE | MOM. | 2-3,5-4 | N/A     |         |                                                                                       |  |  |
|    | 7211* | U211* | ON   | ON   | ON   |         |         |         |                                                                                       |  |  |
|    | 7213* | U213* | ON   | ON   | MOM. |         |         |         |                                                                                       |  |  |
|    | 7215* | U215* | MOM. | ON   | MOM. |         |         |         |                                                                                       |  |  |

DPDT

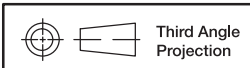


Part number shown: 7201J1ZQE2

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, see Section N.



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



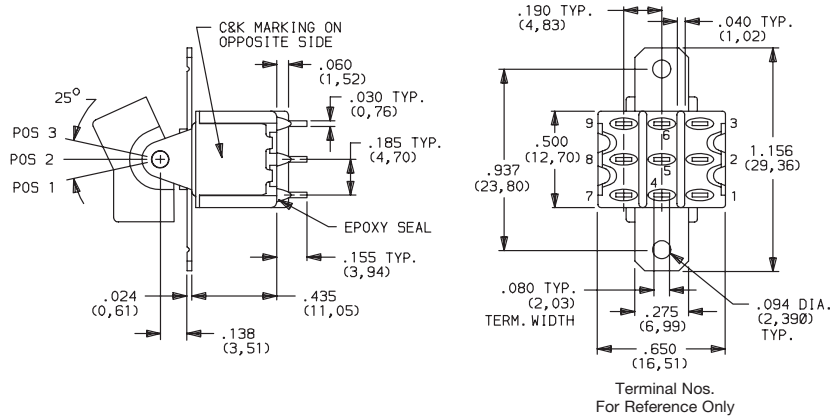
# 7000 Series Miniature Rocker & Lever Handle Switches

## 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      |           |
|           |           |                |                              |        |        |                              |        |             |           |
|           |           |                | C&K marking on opposite side |        |        | C&K marking on opposite side |        |             |           |
| 3P        | 7301      | U31            | ON                           | NONE   | ON     | 2-3,5-6,8-9                  | N/A    | 2-1,5-4,8-7 | <br>3PDT  |
|           | 7303      | U33            | ON                           | OFF    | ON     |                              | OPEN   |             |           |

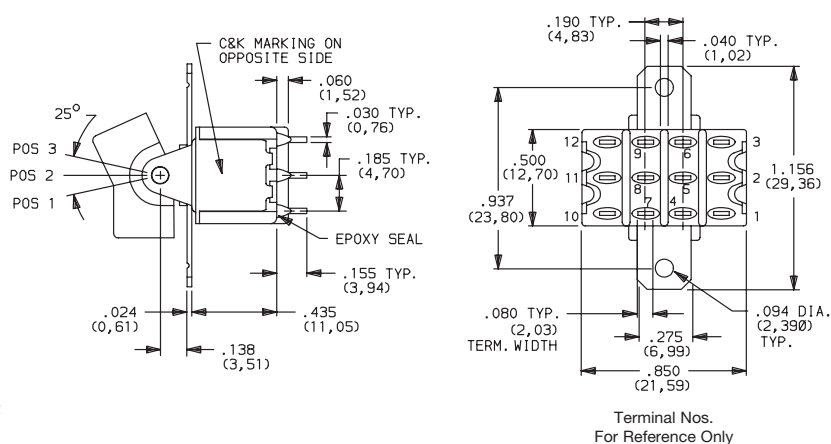
### 3PDT



Part number shown: 7301J1ZQE2

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

### 4PDT

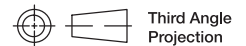


Part number shown: 7401J1ZQE2

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.



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

[www.ckswitches.com](http://www.ckswitches.com)

Rocker



G

**C&K**

27 mar 17

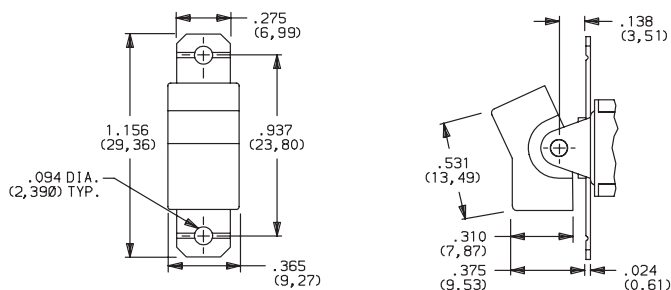
# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-PANEL REAR MOUNT

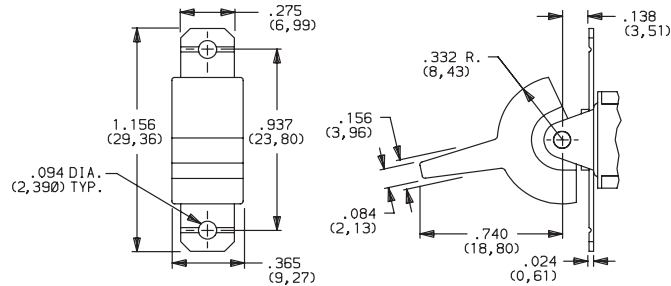
ACTUATOR COLOR

ACTUATOR

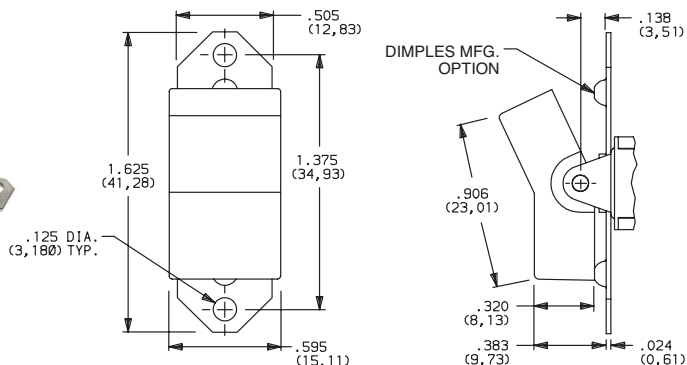
### J1 ROCKER



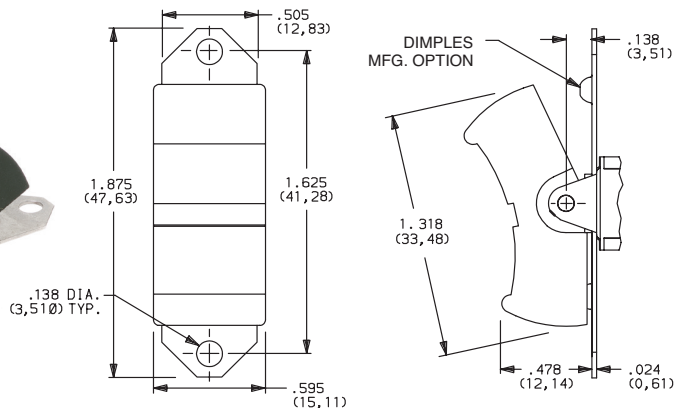
### J2 LEVER



### J3 ROCKER



### J10 ROCKER



| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |
| 3           | RED            |

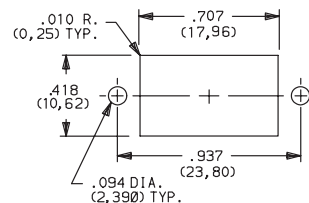
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**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.

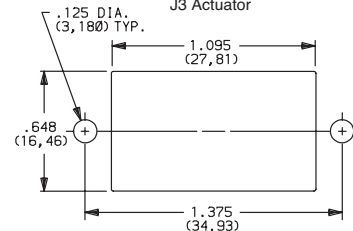
J1, J2, J3 & J10 Actuators available with C, W-W5, Z or Z3 terminations.

### PANEL MOUNTING

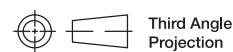
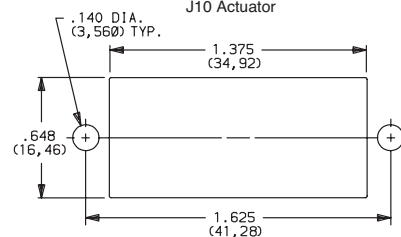
#### J1 & J2 Actuators



#### J3 Actuator



#### J10 Actuator

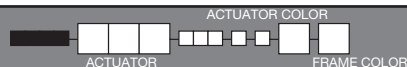


Third Angle Projection

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 |
|-------------|----------------|
| <b>2</b>    | BLACK          |
| <b>1</b>    | WHITE          |
| <b>3</b>    | RED            |

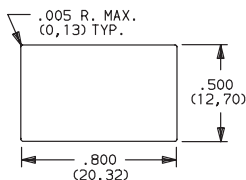
| OPTION CODE | FRAME COLOR                         |
|-------------|-------------------------------------|
| <b>2</b>    | BLACK                               |
| <b>NONE</b> | No Frame Color (J15 or J25 options) |
| <b>1</b>    | WHITE                               |

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

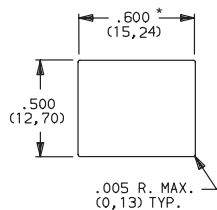
**NOTE:** Actuators & frames available separately, see pages G-21 through G-22. J15, J16, J25, J26, J50 & J51 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z and Z3 terminations.

### PANEL MOUNTING

J15, J16, J25 & J26 Actuators

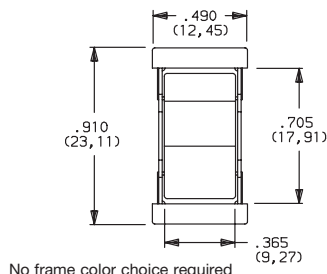


J50 Actuator

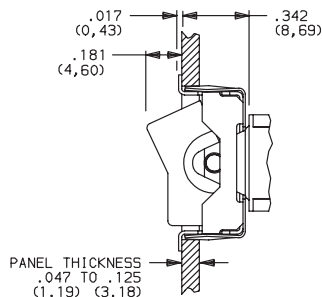


\* For J50: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.

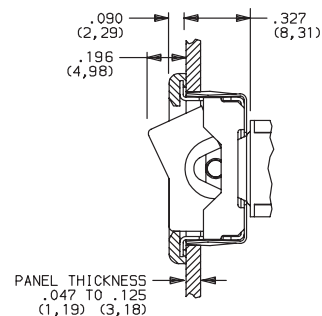
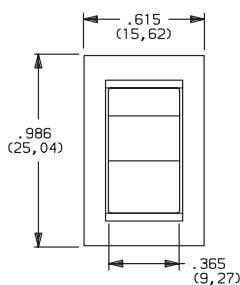
### J15 ROCKER, SNAP-IN



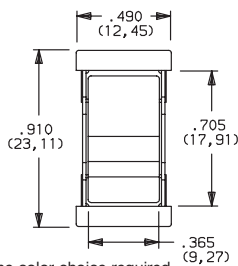
No frame color choice required



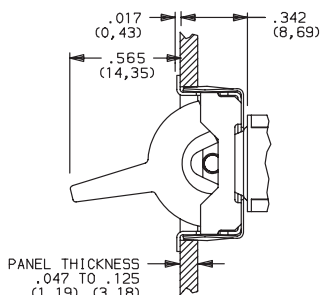
### J16 ROCKER WITH FRAME, SNAP-IN



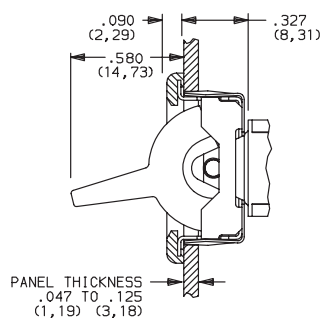
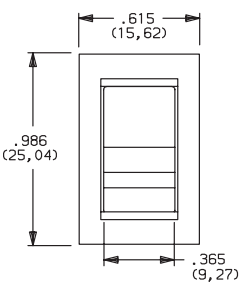
### J25 LEVER, SNAP-IN



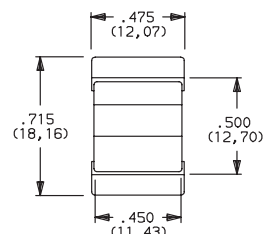
No frame color choice required



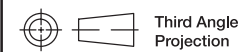
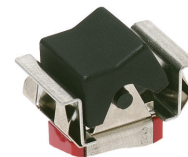
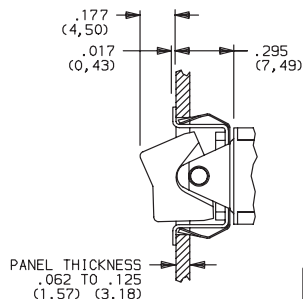
### J26 LEVER WITH FRAME, SNAP-IN



### J50 ROCKER, SNAP-IN



No frame color choice required



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

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Rocker



G

**C&K**

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# 7000 Series Miniature Rocker & Lever Handle Switches

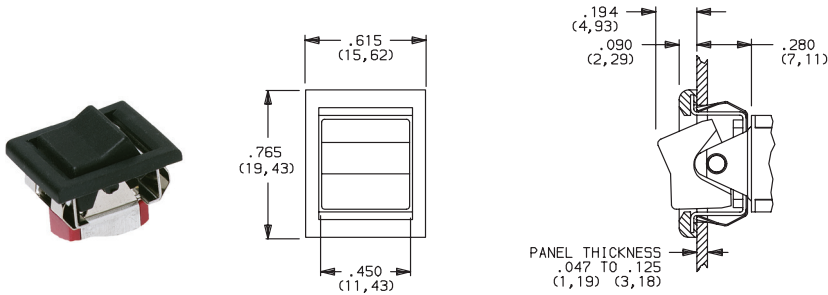
## ACTUATOR-SNAP-IN FRONT MOUNT

ACTUATOR COLOR

ACTUATOR

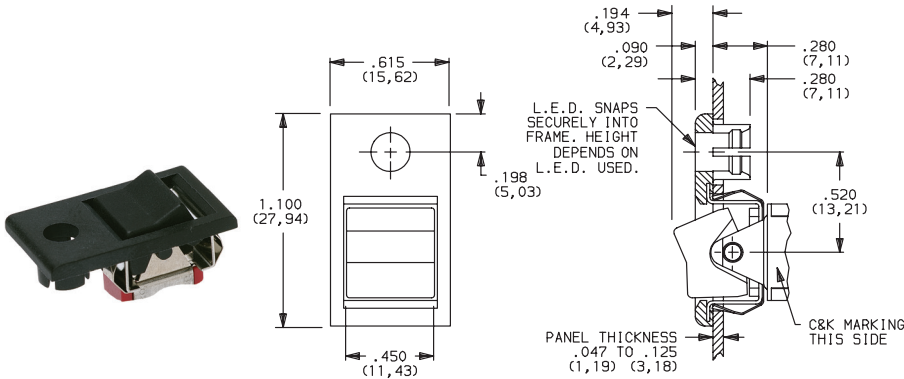
FRAME COLOR

### J51 ROCKER WITH FRAME, SNAP-IN



| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |
| 3           | RED            |

### J52 ROCKER WITH FRAME FOR LED, SNAP-IN



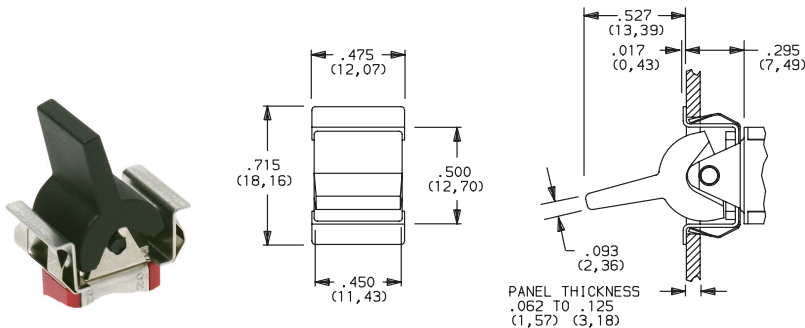
| OPTION CODE | FRAME COLOR                         |
|-------------|-------------------------------------|
| 2           | BLACK                               |
| NONE        | No Frame Color (J15 or J25 options) |
| 1           | WHITE                               |

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.

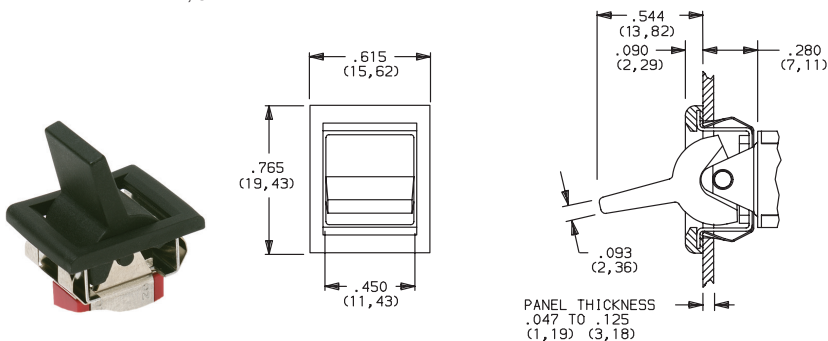
LED not included.  
For LED information, see page G-24.

### J60 LEVER, SNAP-IN



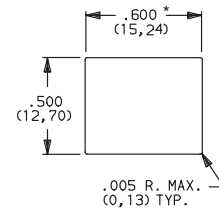
No frame color choice required

### J61 LEVER WITH FRAME, SNAP-IN

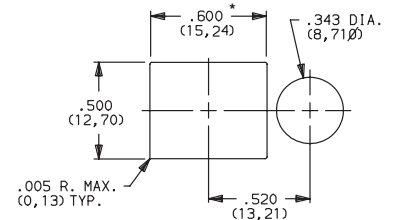


#### PANEL MOUNTING

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.

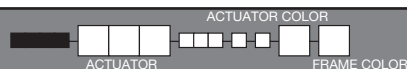


Third Angle Projection

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

# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-SNAP-IN FRONT MOUNT



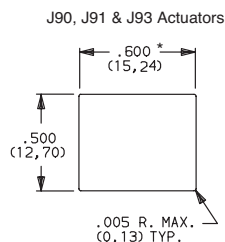
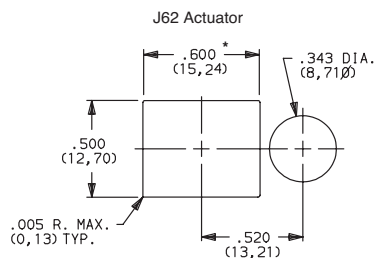
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |
| 3           | RED            |

| 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.

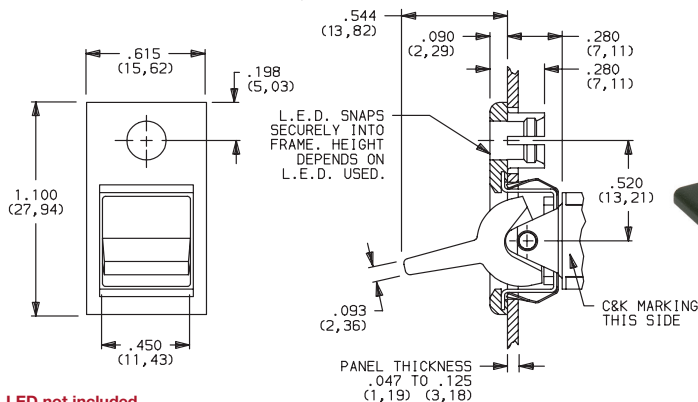
**NOTE:** Actuators & frames available separately, see pages G-21 through G-22. J62, J90 & J91 Actuators available with 71XX, 72XX, U1XX & U2XX models and C, W-W5, Z & Z3 terminations.

### PANEL MOUNTING



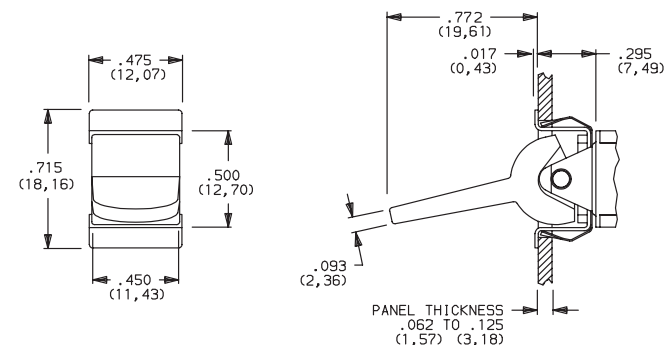
\* For J90: Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thk. panels.  
For J91: Increase this dimension to .620/.625 (15,75/15,88) for .060/.125 (1,52/3,18) thk. panels.

### J62 LEVER WITH FRAME FOR LED, SNAP-IN



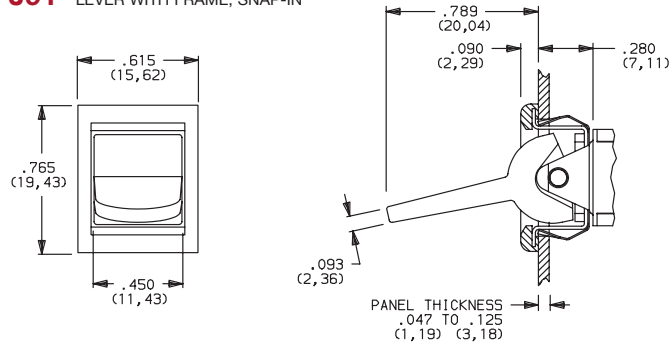
**LED not included.**  
For LED information, see page H-25.

### J90 LEVER, SNAP-IN



No frame color choice required.

### J91 LEVER WITH FRAME, SNAP-IN



Rocker



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

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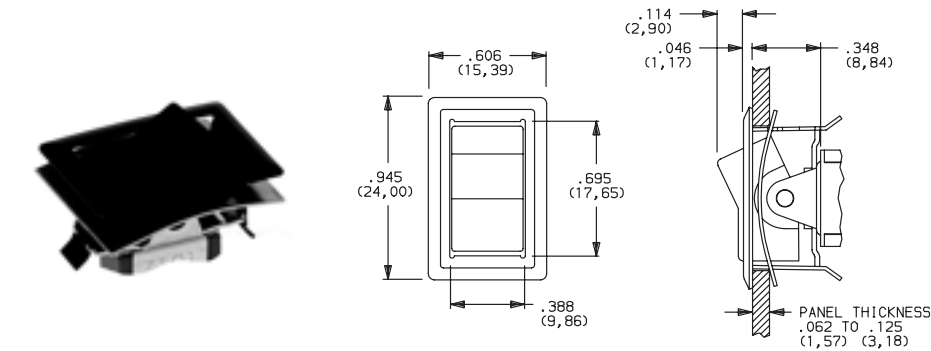
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# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-REAR MOUNT



**J11**   ROCKER WITH FRAME



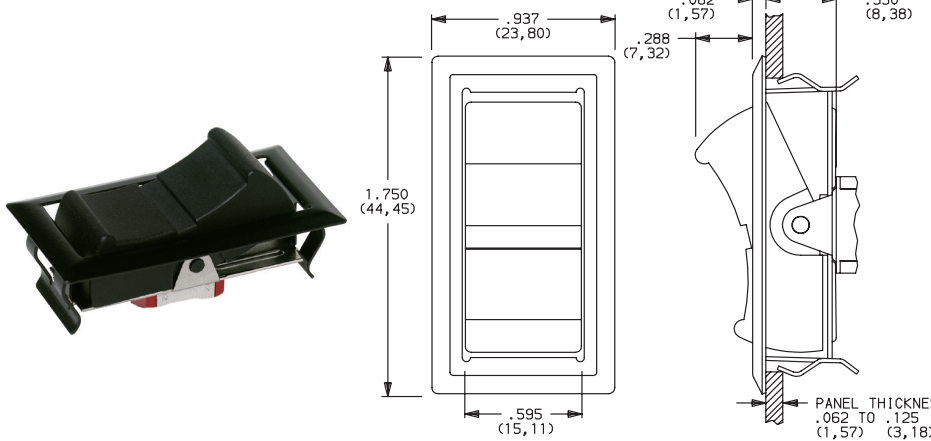
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |
| 3           | RED            |

| 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.

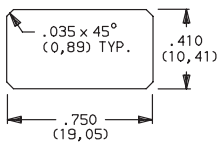
**NOTE:** Actuators & frames available separately, see pages G-21 through G-22. J11, J19, J21 & J37 Actuators available with C, W-W5, Z & Z3 terminations. J37 offered with Black Frame (2 color option) only.

**J19**   ROCKER WITH FRAME

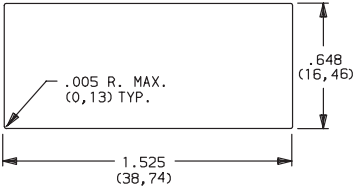


### PANEL MOUNTING

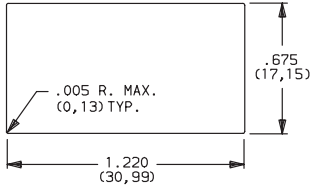
J11 & J21 Actuators



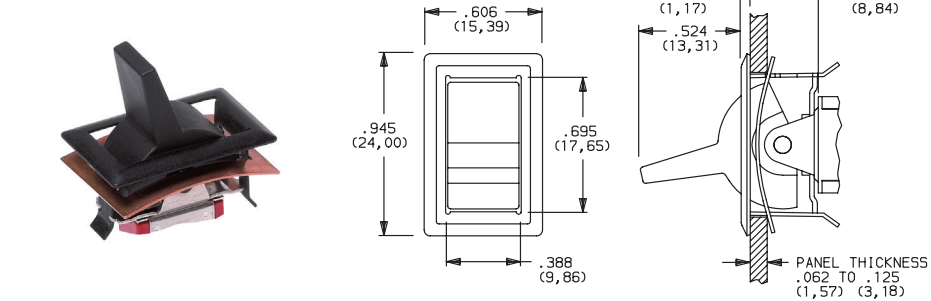
J19 Actuator



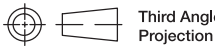
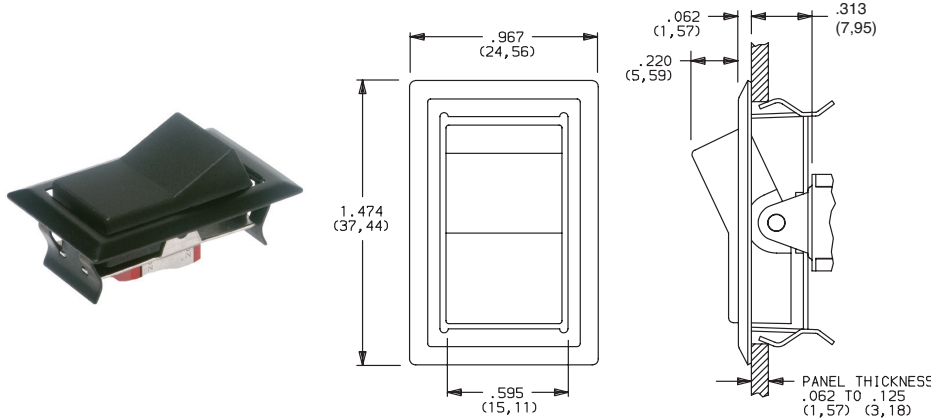
J37 Actuator



**J21**   LEVER WITH FRAME



**J37**   ROCKER WITH FRAME

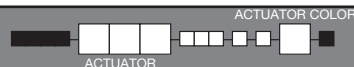


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-PC MOUNT



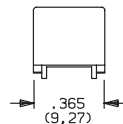
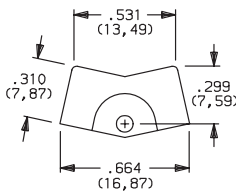
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |
| 3           | RED            |

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

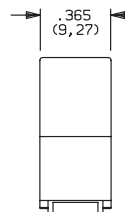
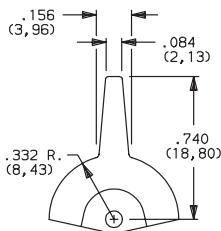
**NOTE:** Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

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.

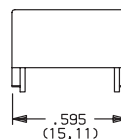
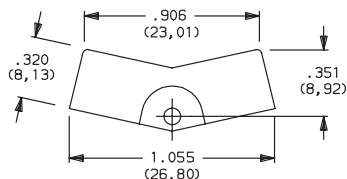
### J1 ROCKER



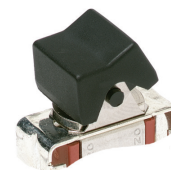
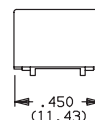
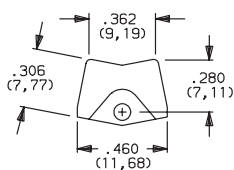
### J2 LEVER



### J3 ROCKER



### J50 ROCKER



Third Angle  
Projection

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

Rocker



G

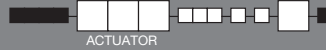
**C&K**

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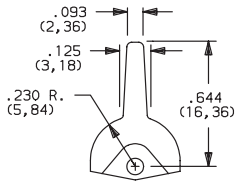
# 7000 Series Miniature Rocker & Lever Handle Switches

## ACTUATOR-PC MOUNT

ACTUATOR COLOR



### J60 LEVER



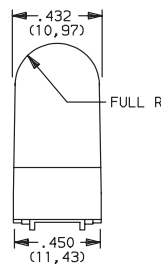
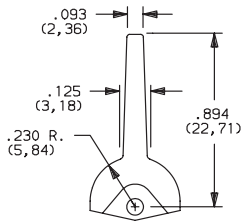
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| <b>2</b>    | BLACK          |
| <b>1</b>    | WHITE          |
| <b>3</b>    | RED            |

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.

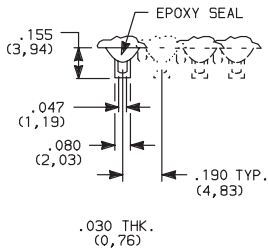
Actuators available separately, see page G-21 through G-22. J60 & J90 actuators available with A (DP, 3P models only), A3 (DP, 3P models only), AV2, AV3, AW3 (DP, 3P models only) & V2-V61 terminations.

### J90 LEVER



## TERMINATIONS

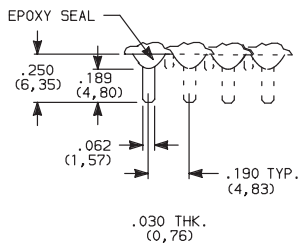
### Z SOLDER LUG



### SPDT thru 4PDT

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

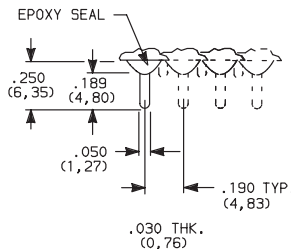
### Z3 QUICK CONNECT



### 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.

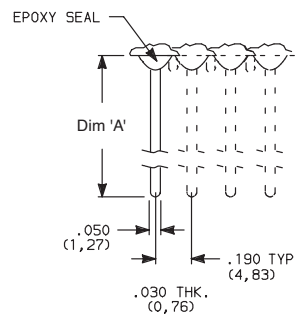
### C PC THRU-HOLE



### SPDT thru 4PDT

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

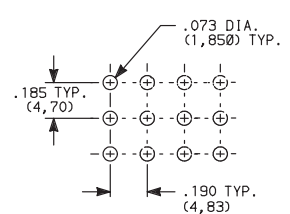
### W, W3, W5 WIRE WRAP



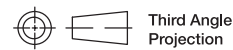
### SPDT thru 4PDT

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

### PC MOUNTING



| OPTION CODE | DIM 'A'       |
|-------------|---------------|
| <b>W</b>    | .750 (19,05)  |
| <b>W3</b>   | .425 (10,80)  |
| <b>W5</b>   | 1.305 (33,15) |



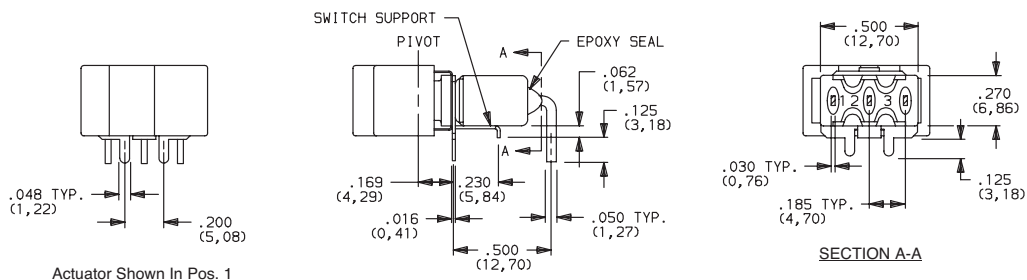
Third Angle Projection

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

# 7000 Series Miniature Rocker & Lever Handle Switches

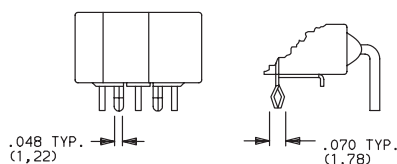
## TERMINATIONS

### A RIGHT ANGLE, PC THRU-HOLE

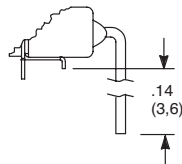


**7101J1ABE2**  
Horizontal Actuation  
**SPDT**

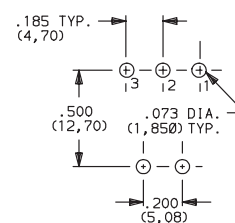
### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



### AW3 RIGHT ANGLE, EXTENDED, PC THRU-HOLE



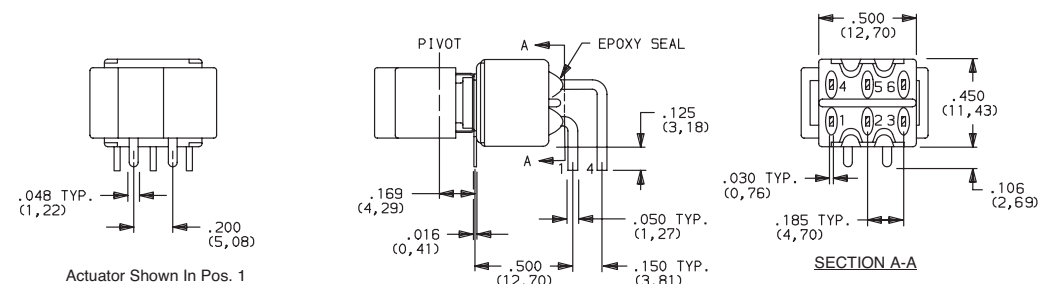
#### PC MOUNTING



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

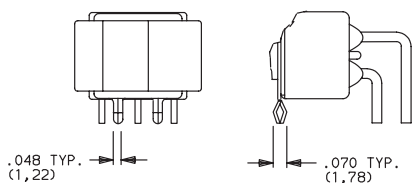
**NOTE:** PC pattern must clear switch support leg.

### A RIGHT ANGLE, PC THRU-HOLE

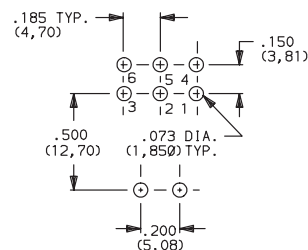


**7201J1ABE2**  
Horizontal Actuation  
**DPDT**

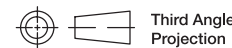
### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



#### 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

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Rocker

G

**C&K**

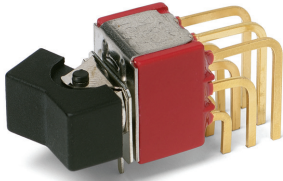
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G-14

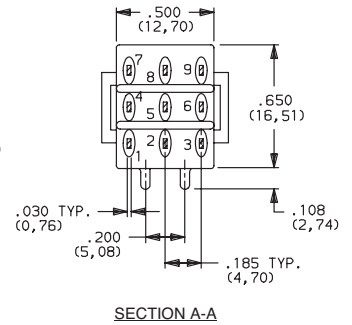
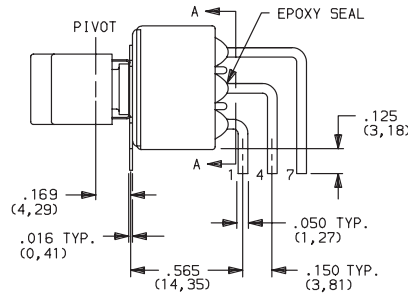
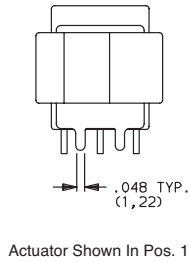
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

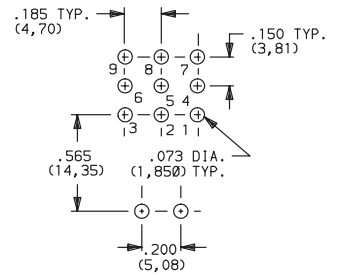
### A RIGHT ANGLE, PC THRU-HOLE



**7301J1ABE2**  
Horizontal Actuation  
**3PDT**

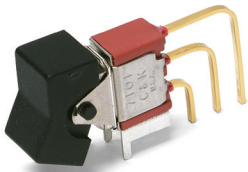


### PC MOUNTING

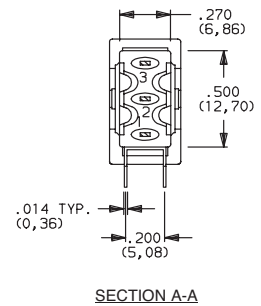
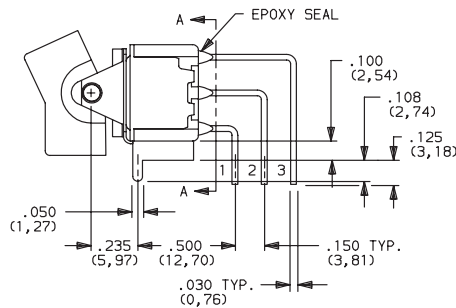
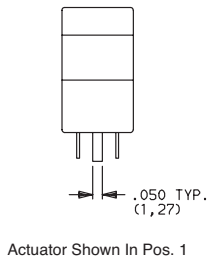


Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

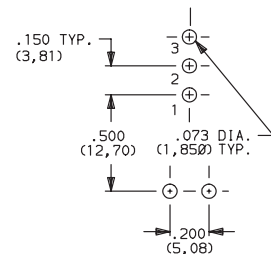
### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



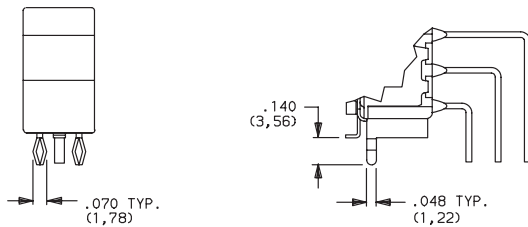
**7101J1AV2BE2**  
Vertical Actuation  
**SPDT**



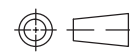
### PC MOUNTING



### 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.



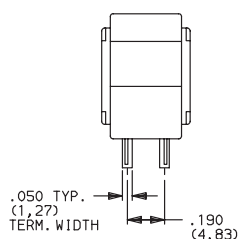
Third Angle  
Projection

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

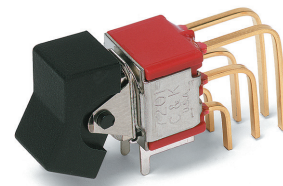
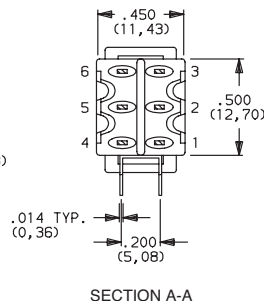
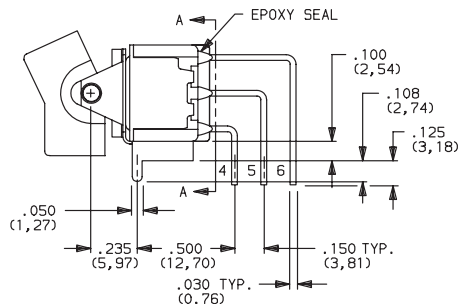
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

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

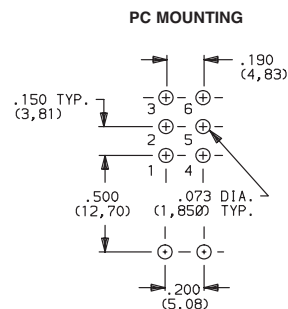
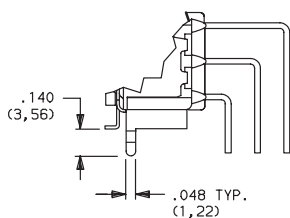
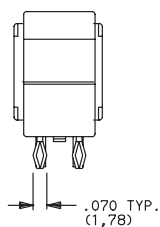


Actuator Shown In Pos. 1



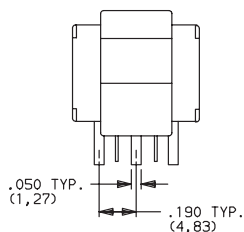
7201J1AV2BE2  
Vertical Actuation  
DPDT

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

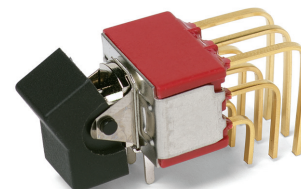
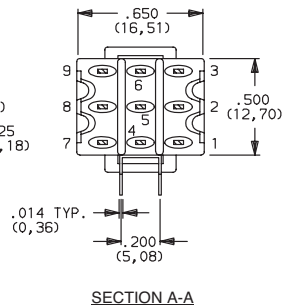
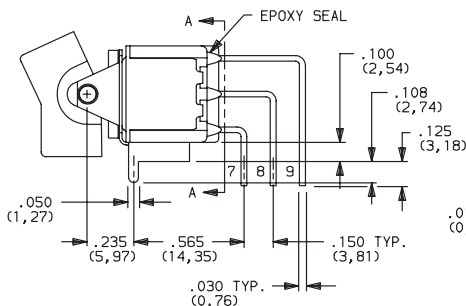


Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

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

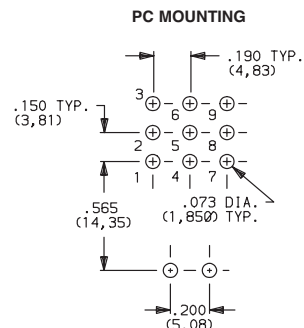
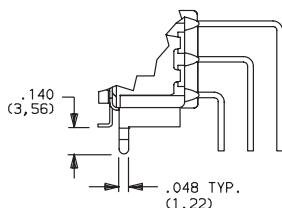
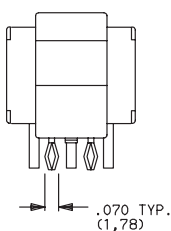


Actuator Shown In Pos. 1



7301J1AV2BE2  
Vertical Actuation  
3PDT

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



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

27 mar 17

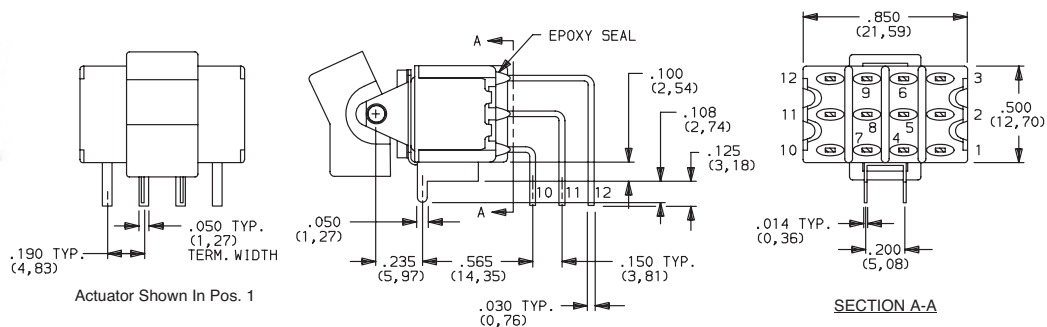
# 7000 Series Miniature Rocker & Lever Handle Switches

## TERMINATIONS

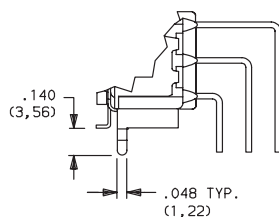
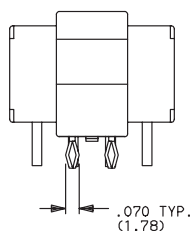
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**7401J1AV2BE2**  
Vertical Actuation  
**4PDT**

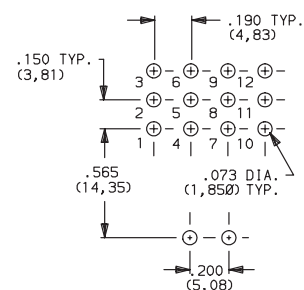


**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH

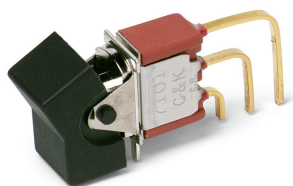


Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

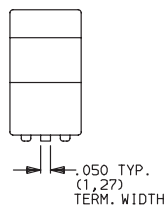
### PC MOUNTING



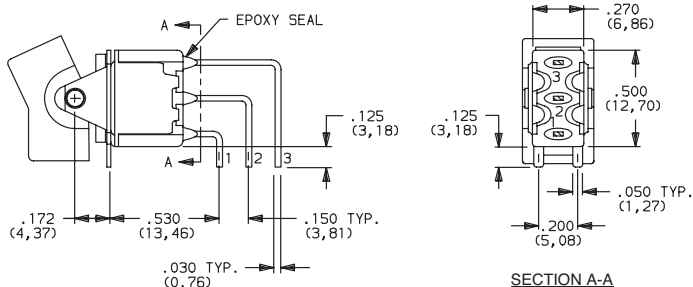
**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



**7101J1V5BE2**  
Vertical Actuation  
**SPDT**

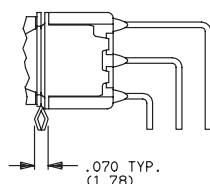
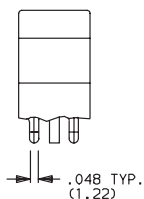


Actuator Shown In Pos. 1



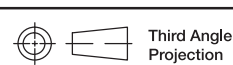
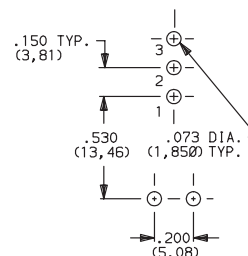
### SECTION A-A

**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



Third Angle  
Projection

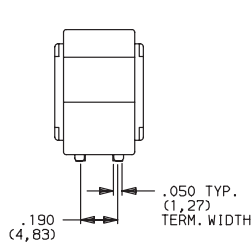
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# 7000 Series Miniature Rocker & Lever Handle Switches

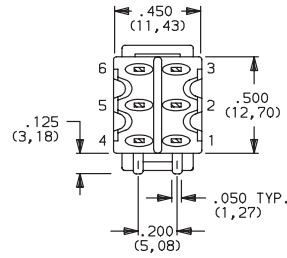
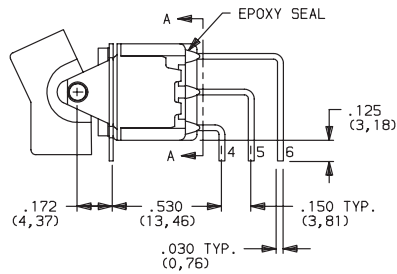
## TERMINATIONS



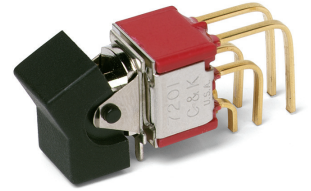
### V5 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



Actuator Shown In Pos. 1

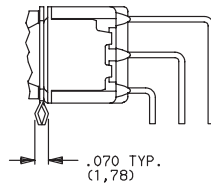
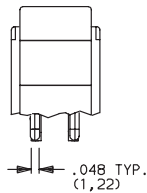


SECTION A-A

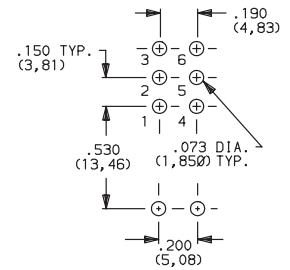


7201J1V5BE2  
Vertical Actuation  
DPDT

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



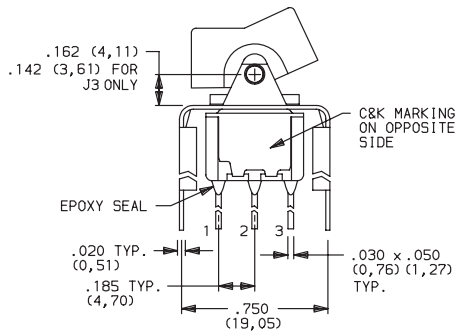
#### PC MOUNTING



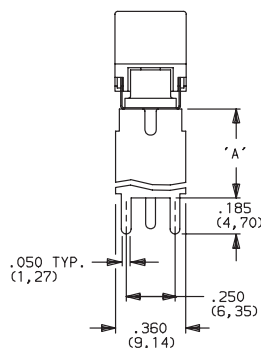
Not available with I seal option. Available actuators, see pages G-6 and G-12.  
Terminal bend radii and lead-in manufacturing option.

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

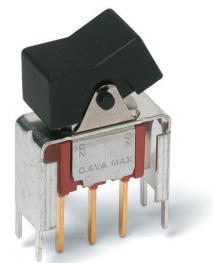
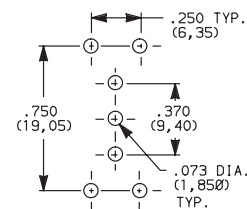
### V61 VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1

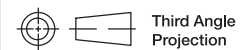


#### PC MOUNTING



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

Rocker

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

**C&K**

27 mar 17

# 7000 Series Miniature Rocker & Lever Handle Switches

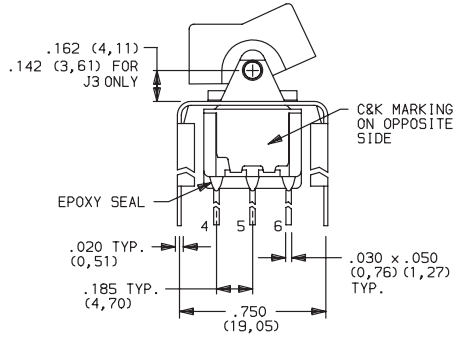
## TERMINATIONS

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

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



7201J1\_BE2  
DPDT



Actuator Shown In Pos. 1

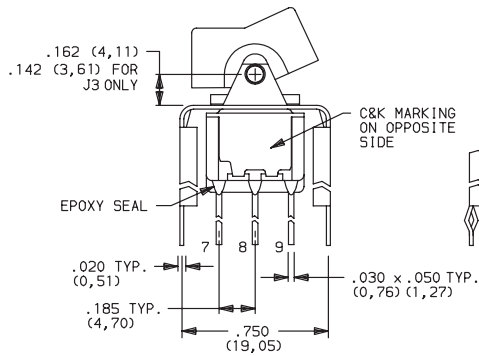
Not available with I seal option.  
Available actuators, see pages G-6 and G-12.

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

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



7301J1\_BE2  
3PDT

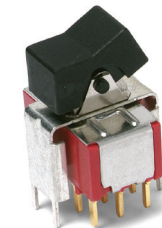


Actuator Shown In Pos. 1

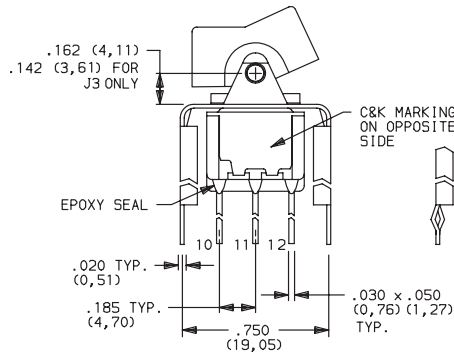
Not available with I seal option.  
Available actuators, see pages G-6 and G-12.

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

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



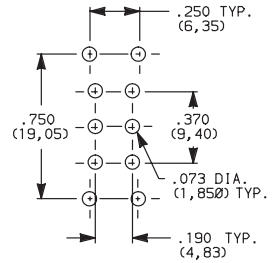
7401J1\_BE2  
4PDT



Actuator Shown In Pos. 1

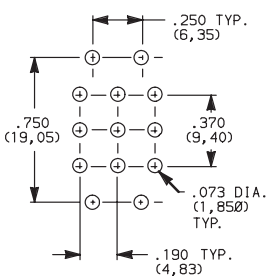
Not available with I seal option.  
Available actuators, see pages G-6 and G-12.

### PC MOUNTING



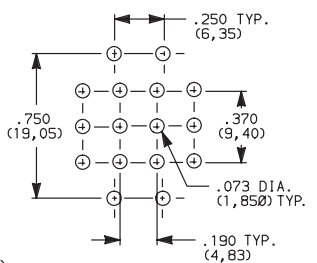
| OPTION CODE    | DIM 'A'      |
|----------------|--------------|
| <b>V2, V21</b> | .555 (14,10) |
| <b>V6, V61</b> | .460 (11,68) |
| <b>V7</b>      | .630 (16,00) |
| <b>V8</b>      | .953 (24,21) |

### PC MOUNTING

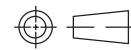


| OPTION CODE    | DIM 'A'      |
|----------------|--------------|
| <b>V2, V21</b> | .555 (14,10) |
| <b>V7</b>      | .630 (16,00) |
| <b>V8</b>      | .953 (24,21) |

### PC MOUNTING



| OPTION CODE    | DIM 'A'      |
|----------------|--------------|
| <b>V2, V21</b> | .555 (14,10) |
| <b>V7</b>      | .630 (16,00) |
| <b>V8</b>      | .953 (24,21) |



Third Angle  
Projection

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

## TERMINATIONS

| OPTION CODE    | DIM 'A'       |
|----------------|---------------|
| <b>V3, V31</b> | .460 (11,68)  |
| <b>V4</b>      | .630 (16,00)  |
| <b>V9</b>      | 1.150 (29,21) |

| OPTION CODE    | DIM 'A'       |
|----------------|---------------|
| <b>V3, V31</b> | .460 (11,68)  |
| <b>V4</b>      | .630 (16,00)  |
| <b>V9</b>      | 1.150 (29,21) |

| OPTION<br>CODE | DIM 'A'       |
|----------------|---------------|
| <b>V4</b>      | .630 (16,00)  |
| <b>V9</b>      | 1.150 (29,21) |

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

# 7000 Series

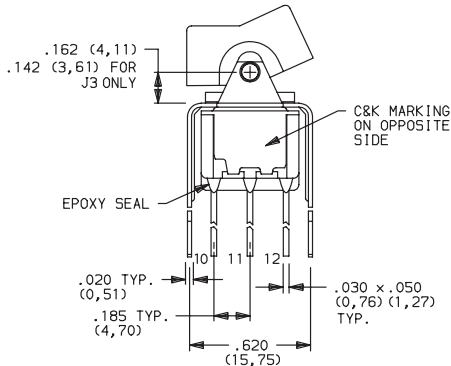
## Miniature Rocker & Lever Handle Switches

### TERMINATIONS

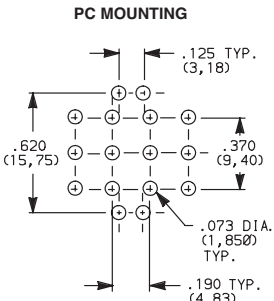
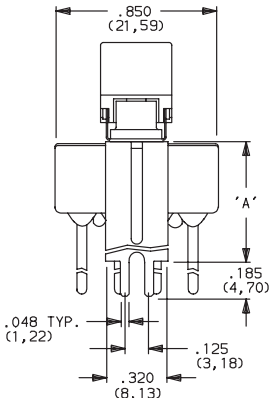
**V4, V9** VERTICAL MOUNT, V-BRACKET



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 <sup>1</sup>               | GOLD <sup>1</sup>      | LOW LEVEL/<br>DRY CIRCUIT         | 0.4 VA MAX. @ 20 V AC OR DC MAX.                                                      |
| P           |                                 | MATTE-TIN <sup>6</sup> |                                   |                                                                                       |
| Q           | SILVER <sup>4,5</sup>           | SILVER <sup>5</sup>    | POWER                             | 5 AMPS @ 120 V AC OR 28 V DC; 2 AMPS @ 250 V AC.                                      |
| S           |                                 | MATTE-TIN <sup>6</sup> |                                   |                                                                                       |
| G           | GOLD OVER SILVER <sup>2,3</sup> | GOLD <sup>3</sup>      | LOW LEVEL/DRY<br>CIRCUIT OR POWER | 0.4 VA MAX @ 20 V AC OR DC MAX OR 5 AMPS @<br>120 V AC OR 28 V DC; 2 AMPS @ 250 V AC. |
| R           |                                 | MATTE-TIN <sup>6</sup> |                                   |                                                                                       |

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

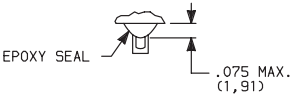
- <sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.
- <sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>4</sup> END CONTACTS: Coin silver, silver plated.
- <sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- <sup>6</sup> 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.**

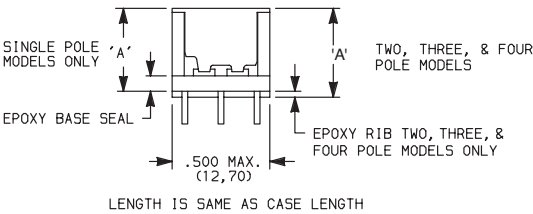
**NOTE:** Any models supplied with Q, B, G S, P & R contact material are RoHS compliant.

### 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) |



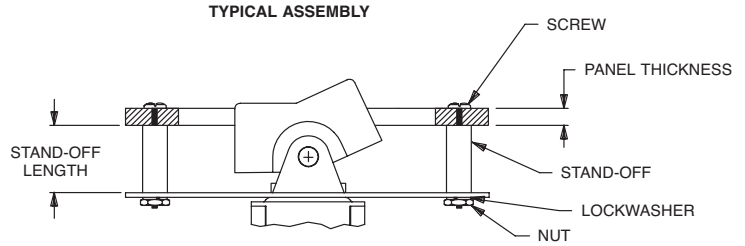
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# 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



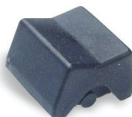
PART NO.  
**426D01000** WHITE  
**426D02263** BLACK  
**426D03000** RED  
 Material: Nylon  
 Finish: Matte

### 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

Rocker



G

**C&K**

27 mar 17

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

# 7000 Series

## Miniature Rocker & Lever Handle Switches

| AVAILABLE HARDWARE                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>J90 &amp; J91 Actuators</p>  <p>PART NO.<br/> <b>598001000</b> WHITE<br/> <b>598002263</b> BLACK<br/> <b>598003000</b> RED<br/> Material: Nylon<br/> Finish: Matte</p>                           | <p>J10 &amp; J19 Actuators</p>  <p>PART NO.<br/> <b>769501000</b> WHITE<br/> <b>769502263</b> BLACK<br/> <b>769503000</b> RED<br/> Material: Nylon<br/> Finish: Matte</p>            | <p>Fits Z3 Termination female connector</p>  <p>PART NO.<br/> <b>530100000</b><br/> Available in loose pieces.</p>                                                                        |
| <p>Frame for J11 &amp; J21 Actuators</p>  <p>PART NO.<br/> <b>764500746</b> BLACK ENAMEL<br/> <b>764500747</b> WHITE ENAMEL<br/> <b>764601106</b> RETAINING SPRING<br/> Material: Spring Steel</p> | <p>Frame for J16 &amp; J26 Actuators</p>  <p>PART NO.<br/> <b>459101000</b> WHITE<br/> <b>459102000</b> BLACK<br/> <b>459103000</b> RED<br/> Material: Nylon<br/> Finish: Matte</p> | <p>Frame for J51, J61 &amp; J91 Actuators</p>  <p>PART NO.<br/> <b>615601000</b> WHITE<br/> <b>615602263</b> BLACK<br/> <b>615603000</b> RED<br/> Material: Nylon<br/> Finish: Matte</p> |
| <p>Frame for J19 Actuator</p>  <p>PART NO.<br/> <b>781000746</b> BLACK ENAMEL<br/> <b>781000747</b> WHITE ENAMEL<br/> Material: Spring Steel</p>                                                  | <p>Frame for J37 Actuator</p>  <p>PART NO.<br/> <b>445400746</b> BLACK ENAMEL<br/> Material: Spring Steel</p>                                                                      | <p>Frame for J52 &amp; J62 Actuators</p>  <p>PART NO.<br/> <b>613301000</b> WHITE<br/> <b>613302263</b> BLACK<br/> <b>613303000</b> RED<br/> Material: Nylon<br/> Finish: Matte</p>     |



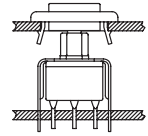
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# 7000 Series Miniature Rocker & Lever Handle Switches

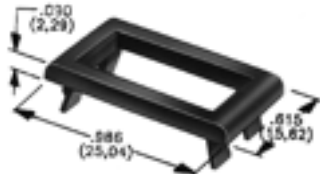
## AVAILABLE HARDWARE

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



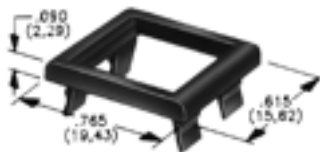
J1 & J2 Actuators



.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

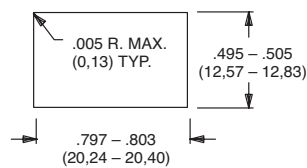


.047" (1,19) PANEL THK. .062" (1,57) PANEL THK. .090" (2,29) PANEL THK. .125" (3,18) PANEL THK.

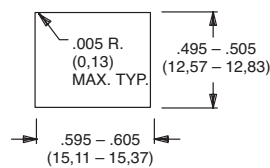
|           |           |           |                 |
|-----------|-----------|-----------|-----------------|
| PART NO.  | PART NO.  | PART NO.  | PART NO.        |
| 432502263 | 432602263 | 432702263 | 432802263 BLACK |

### PANEL MOUNTING

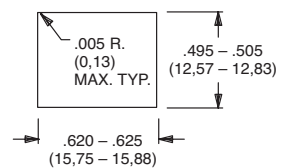
For part numbers  
4529xxxxx, 4527xxxxx,  
4528xxxxx, 4526xxxxx



For part numbers  
4325xxxxx, 4326xxxxx



For part numbers  
4327xxxxx, 4328xxxxx



Rocker



G

**C&K**

27 mar 17



Third Angle  
Projection

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

[www.ckswitches.com](http://www.ckswitches.com)

# 7000 Series

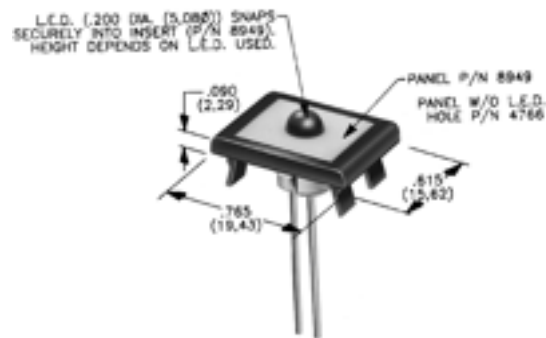
## Miniature Rocker & Lever Handle Switches

### 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

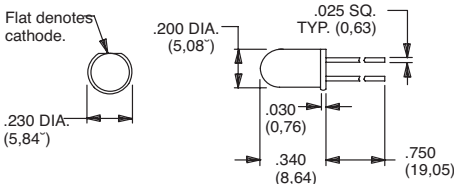
PART NO.  
**476602000** BLACK

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.

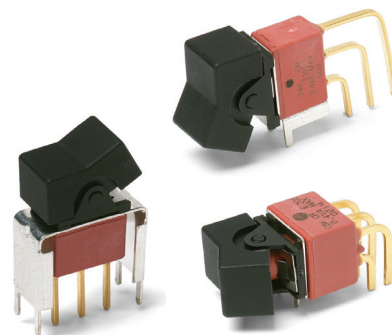
# E Series Sealed Miniature Rocker and Lever Handle Switches

## 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  $\Omega$  typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

**INSULATION RESISTANCE:** 10<sup>9</sup>  $\Omega$  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

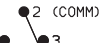
**C&K**

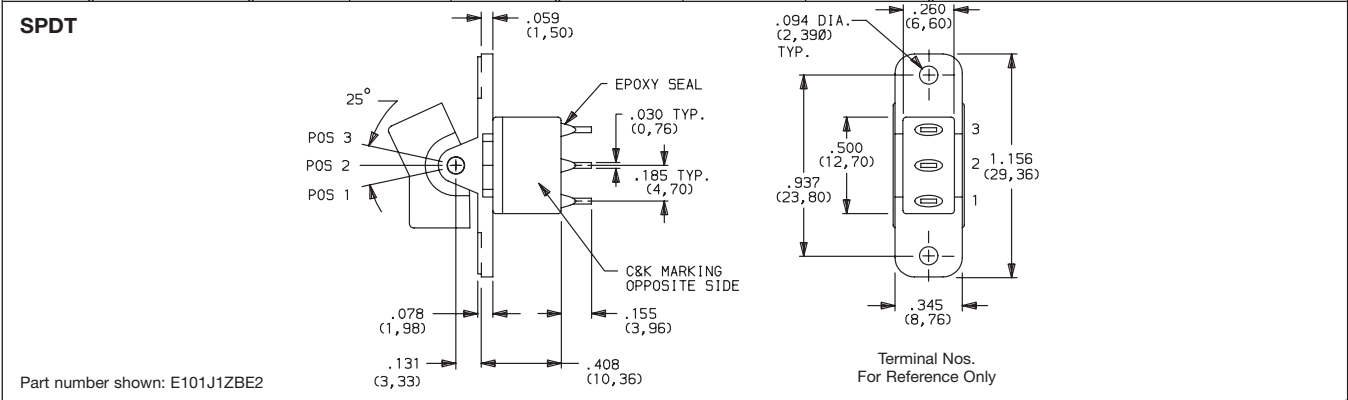
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

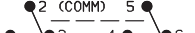
# E Series

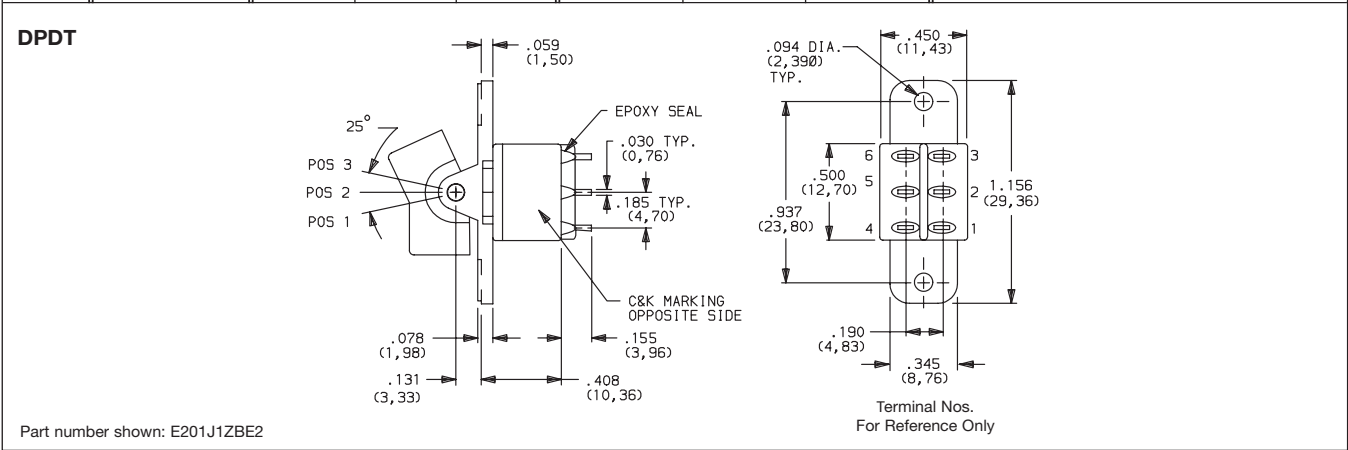
## Sealed Miniature Rocker and Lever Handle Switches

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                                                                                |                                                                                   | OPEN                                                                              |                                                                                   |                                                                                     |
|           | E105      | MOM.                                                                              | OFF                                                                               | MOM.                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
|           | E107      | ON                                                                                | OFF                                                                               | MOM.                                                                              |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
|           | E108      | ON                                                                                | NONE                                                                              | MOM.                                                                              |                                                                                   | N/A                                                                               |                                                                                   |                                                                                     |
|           |           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | SPDT                                                                                |



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



MOM. = Momentary

\*\* Wiring for 3-way switch, Hardware available seperately, see Technical Data section of this catalog.

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

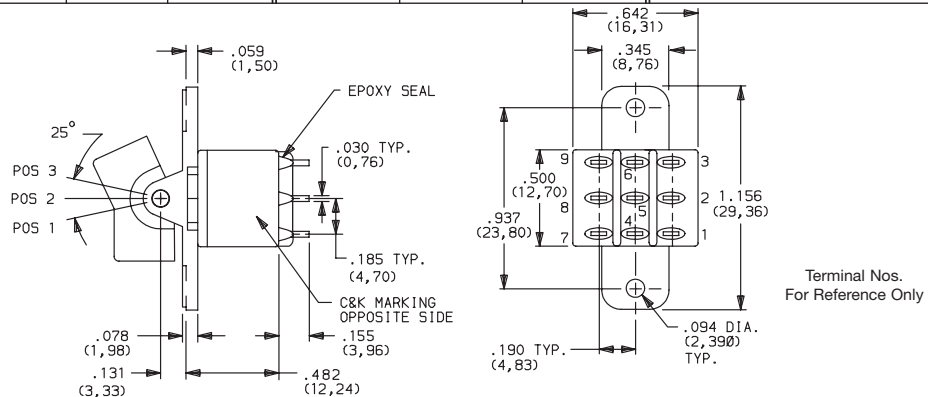
# E Series Sealed Miniature Rocker and Lever Handle Switches

## 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        | <b>E301</b> | ON                           | NONE   | ON     | 2-3,5-6,8-9                  | N/A    | 2-1,5-4,8-7 | <p>3PDT</p> |

### 3PDT

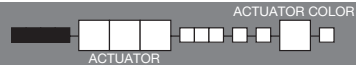


MOM. = Momentary

\*\* 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

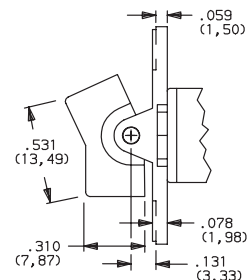
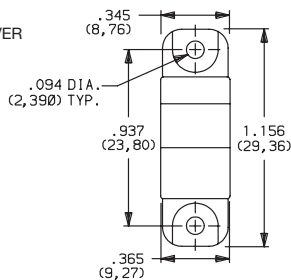


| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| <b>2</b>    | BLACK          |
| <b>3</b>    | RED            |

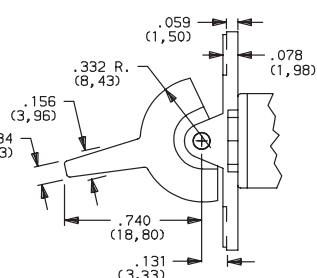
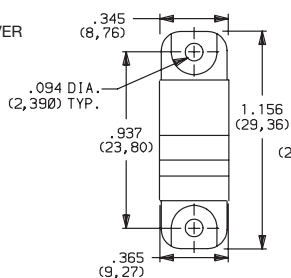
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**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-36. Hardware available separately, see Technical Data section of this catalog. J1, J2 actuators available with C, Z or Z3 terminations.

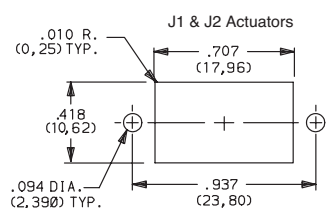
### J1 LEVER



### 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

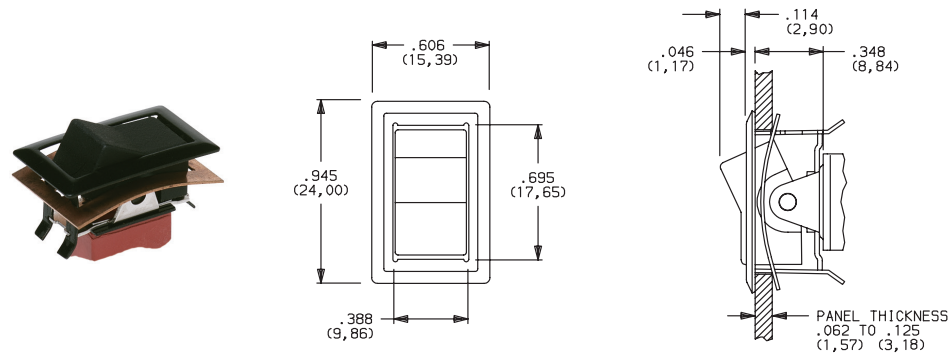
ACTUATOR

ACTUATOR COLOR

FRAME COLOR

J11

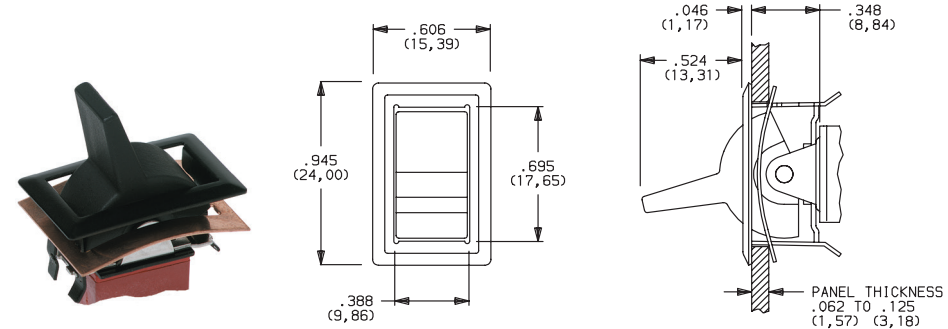
ROCKER WITH FRAME



NOTE: This option has reduced anti-static capability.

J21

LEVER WITH FRAME



NOTE: This option has reduced anti-static capability.

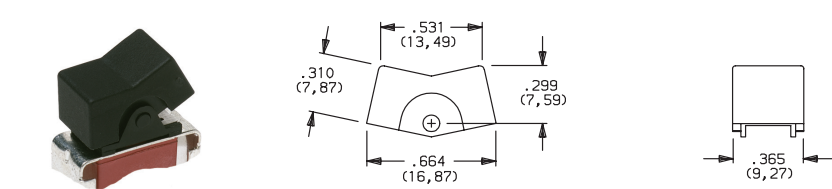
ACTUATOR-PC MOUNT

ACTUATOR

ACTUATOR COLOR

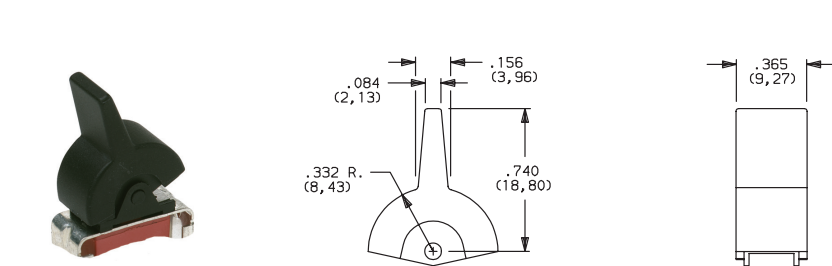
J1

ROCKER



J2

LEVER

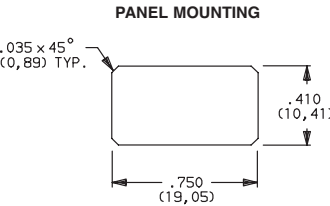


| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 3           | RED            |

| OPTION CODE | FRAME COLOR |
|-------------|-------------|
| 2           | BLACK       |

Actuator finish: Matte, frame finish: gloss. Other colors, custom actuator markings and legends available separately, 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.



| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 3           | RED            |

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

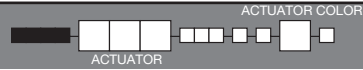
NOTE: Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on switches with panel mounting bracket. Internal o-ring actuator seal standard. Actuators available seperately, see page G-36. Hardware available seperately, see Technical Data section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



| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 3           | RED            |

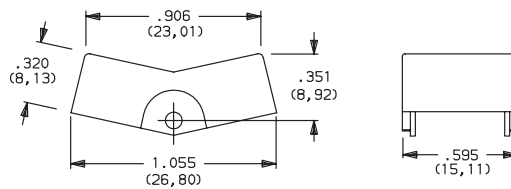
Finish: Matte. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**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.

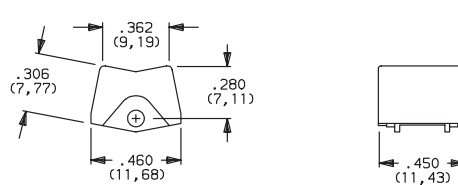
J3 actuators available with AV2, AV3 & V2-V61 terminations. Some permissible actuator/termination combinations may lack clearance between actuator and PC board, and care must be exercised to accommodate this condition.

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

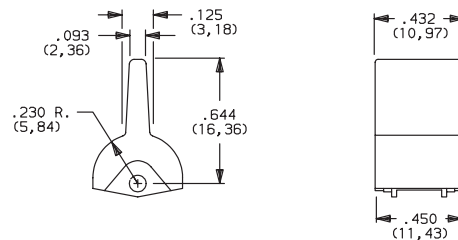
### J3 ROCKER



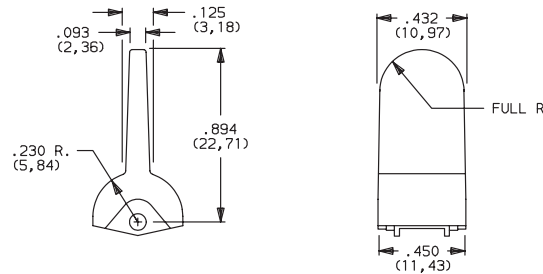
### J50 ROCKER



### J60 LEVER



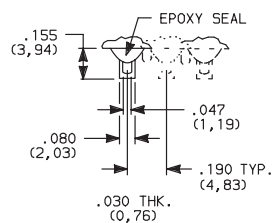
### J90 LEVER



## TERMINATIONS



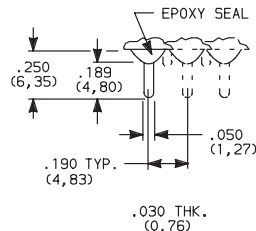
### Z SOLDER LUG



### SPDT thru 3PDT

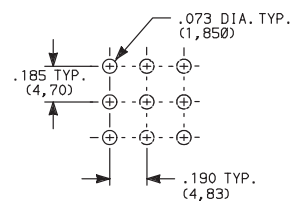
Not available with P, S, & R contact materials.  
Available actuators, see page G-27-28.

### C PC THRU-HOLE



### SPDT thru 3PDT

#### PC MOUNTING



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

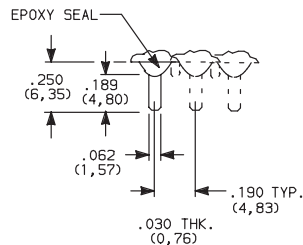
www.ckswitches.com



# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

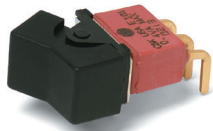
### Z3 QUICK CONNECT



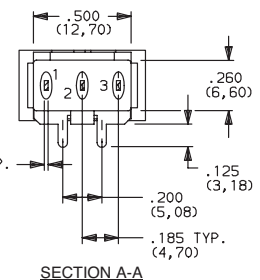
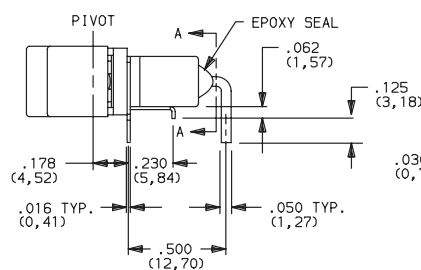
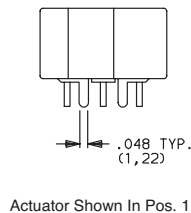
Not available with P, S, & R contact materials. Available actuators, see pages G-27 thru G-28. Mating quick connector available; order part number 530100000, page G-37.

### SPDT thru 3PDT

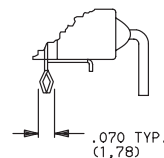
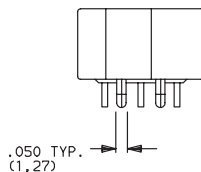
#### A RIGHT ANGLE, PC THRU-HOLE



**E101J1ABE2**  
Horizontal Actuation  
**SPDT**

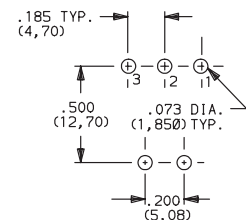


#### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



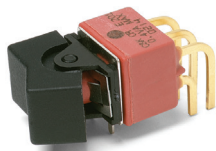
**NOTE:** Not available with J3, J50, J60 and J90 actuators. Available actuators, see pages G-27 thru G-29. Terminal bend radii and lead-in manufacturing option.

#### PC MOUNTING

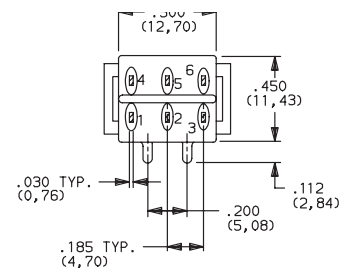
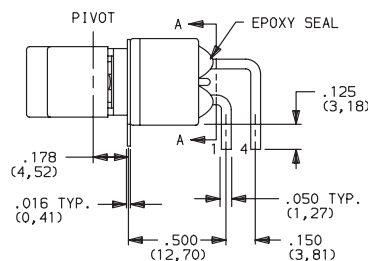
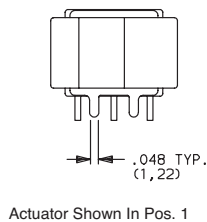


**NOTE:** PC mounting pattern must clear switch support leg.

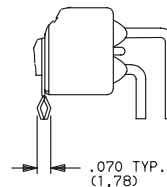
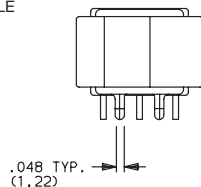
#### A RIGHT ANGLE, PC THRU-HOLE



**E201J1ABE2**  
Horizontal Actuation  
**DPDT**

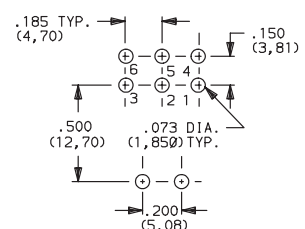


#### A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE



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

#### PC MOUNTING



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

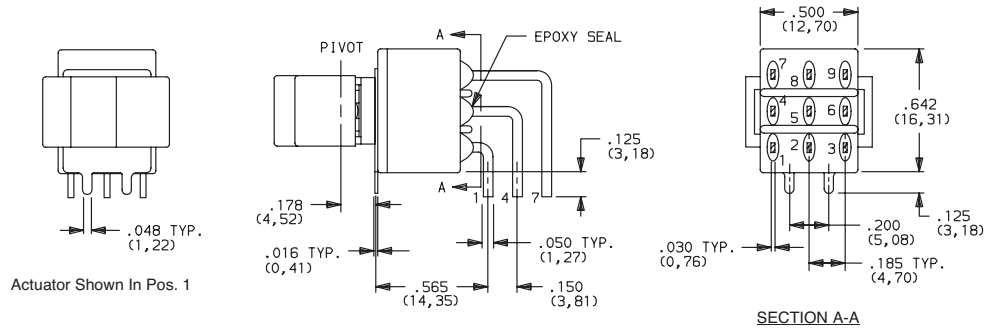


# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS

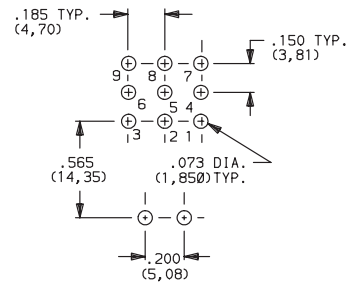


### A RIGHT ANGLE, PC THRU-HOLE



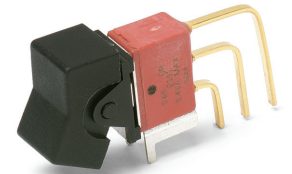
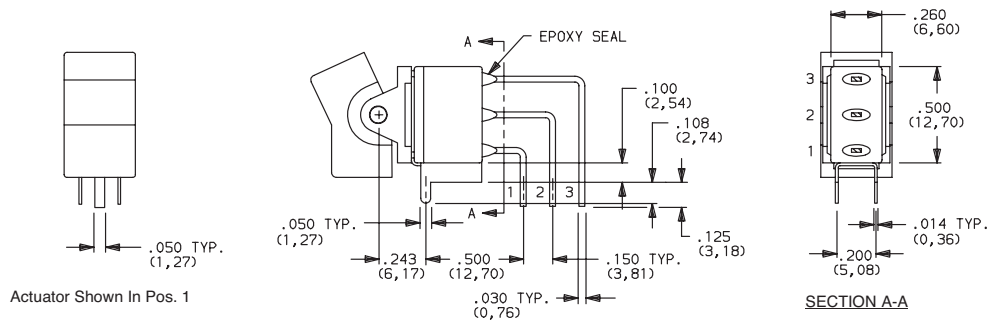
E301J1ABE2  
Horizontal Actuation  
3PDT

### PC MOUNTING



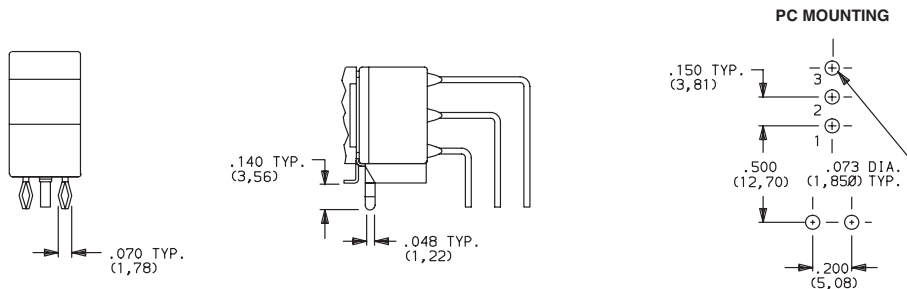
**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-27 thru G-29.

### 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

Rocker

G

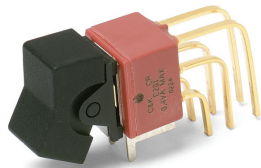
**C&K**

# E Series Sealed Miniature Rocker and Lever Handle Switches

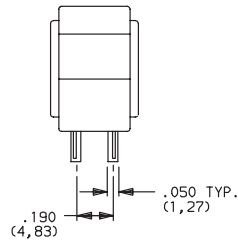
## TERMINATIONS



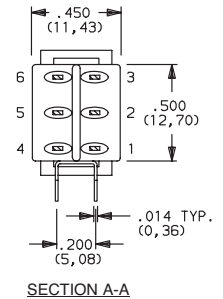
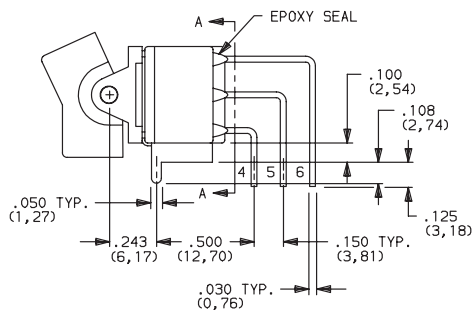
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



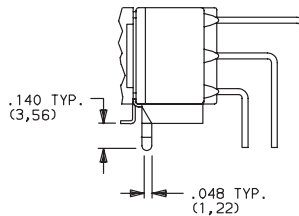
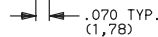
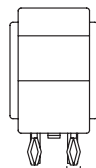
**E201J1AV2BE2**  
Vertical Actuation  
**DPDT**



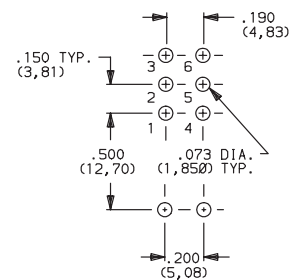
Actuator Shown In Pos. 1



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

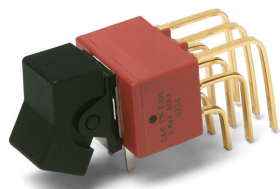


### PC MOUNTING

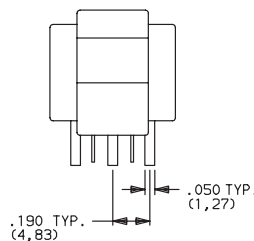


**NOTE:** Terminal bend radii and lead-in manufacturing option.  
Available actuators, see pages G-27 thru G-29.

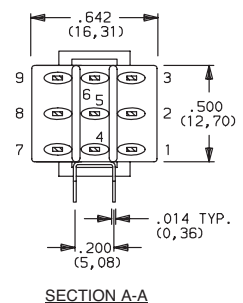
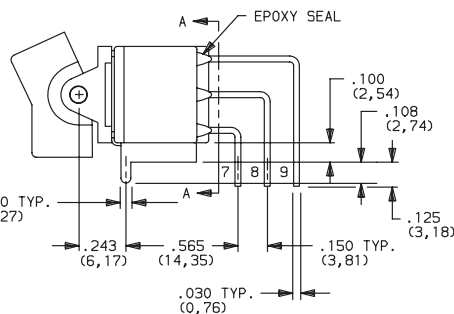
**AV2** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



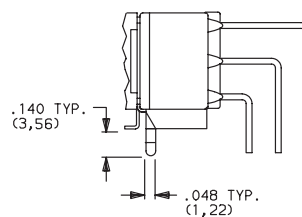
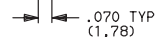
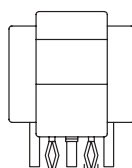
**E301J1AV2BE2**  
Vertical Actuation  
**3PDT**



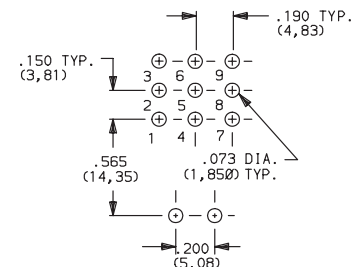
Actuator Shown In Pos. 1



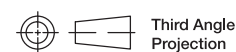
**AV3** VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE,  
.150" PITCH



### 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**

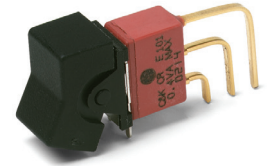
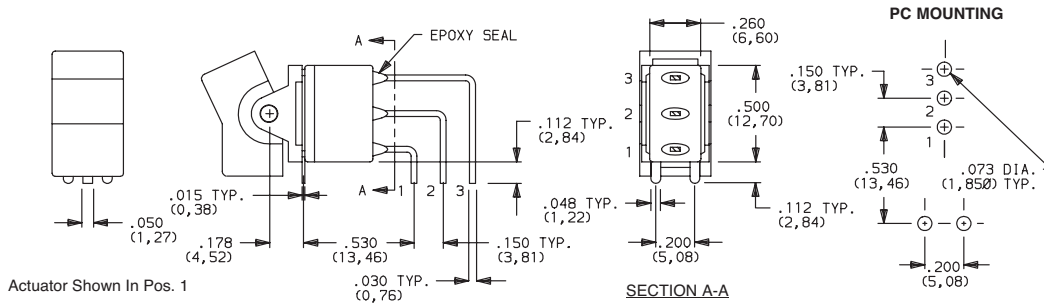


# E Series Sealed Miniature Rocker and Lever Handle Switches

## TERMINATIONS



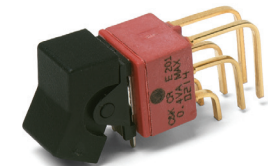
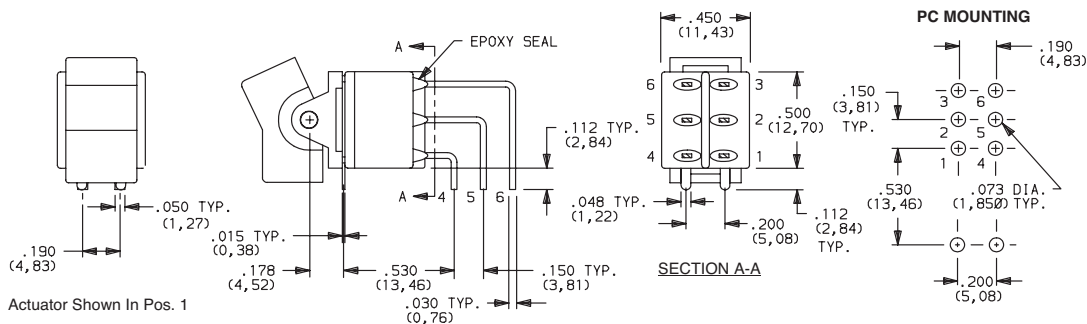
**V5** VERTICAL RIGHT ANGLE, PC THRU-HOLE,  
.150" PITCH



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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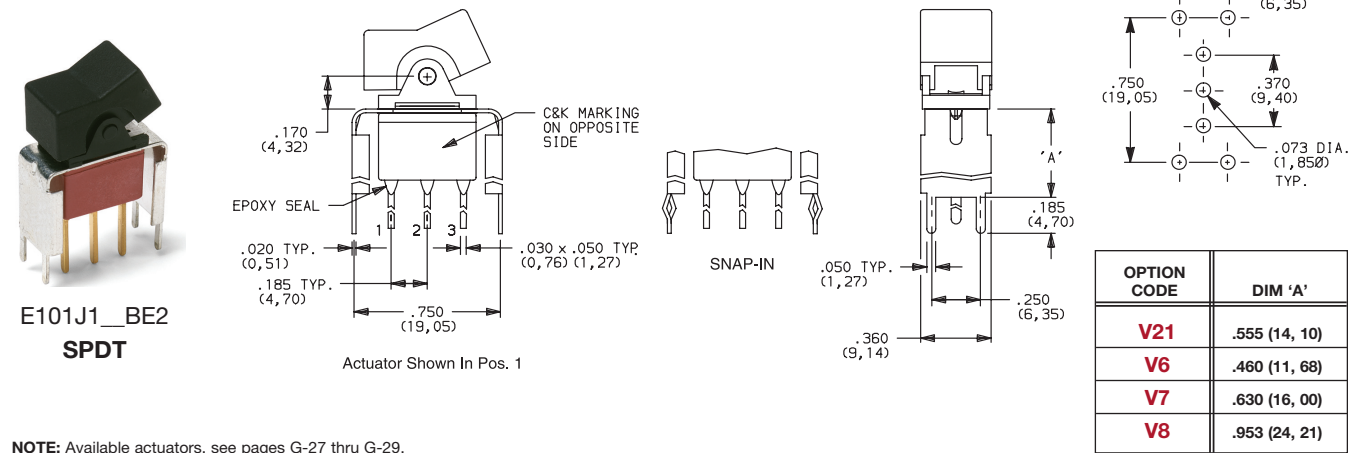
# E Series

## Sealed Miniature Rocker and Lever Handle Switches

TERMINATIONS

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

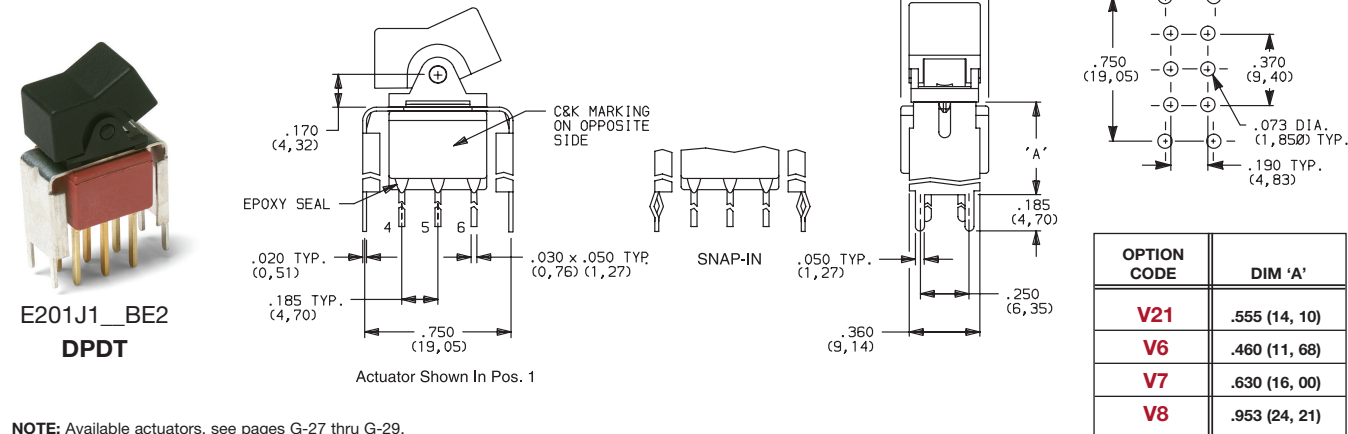
- V21
- VERTICAL MOUNT, V-BRACKET, SNAP-IN



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

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

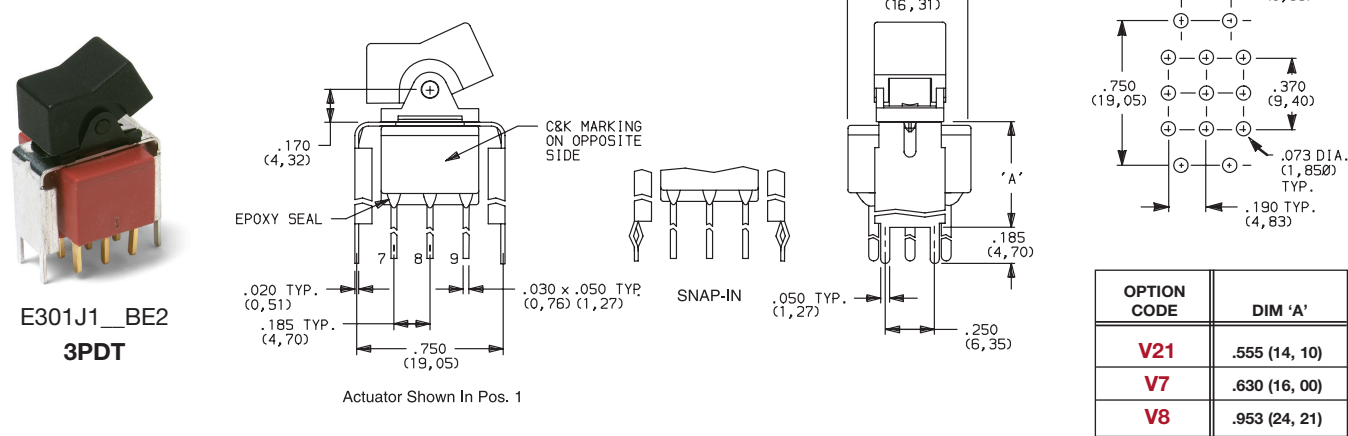
- V21
- VERTICAL MOUNT, V-BRACKET, SNAP-IN



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

- V7, V8
- VERTICAL MOUNT, V-BRACKET

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



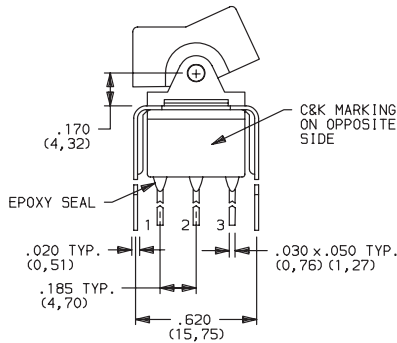
NOTE: Available actuators, see pages G-27 thru G-29.

# E Series Sealed Miniature Rocker and Lever Handle Switches

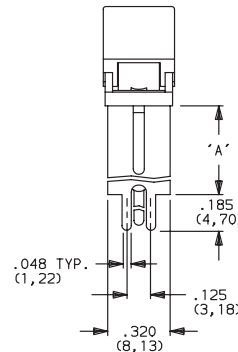
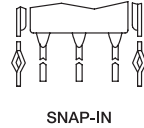
## TERMINATIONS

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

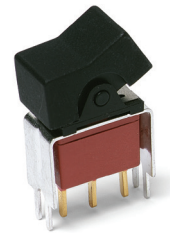
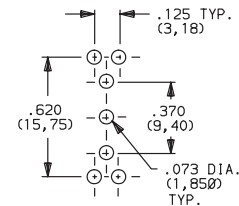
**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



### PC MOUNTING



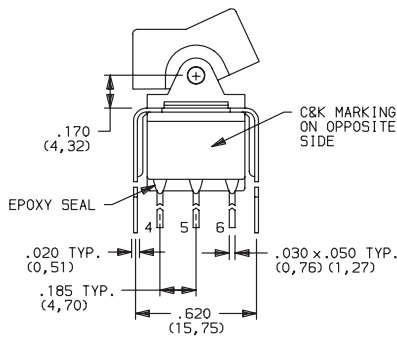
E101J1\_BE2  
SPDT

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

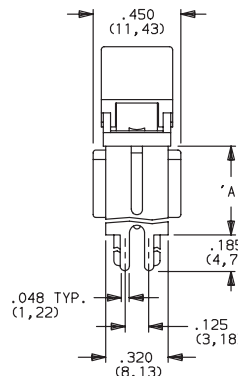
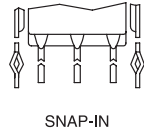
**NOTE:** Available actuators, see pages G-27 thru G-29.

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

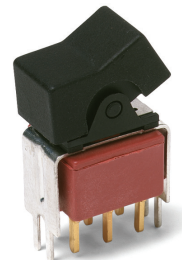
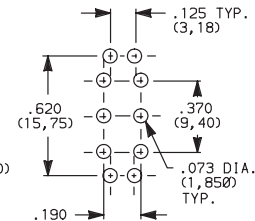
**V31** VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



### PC MOUNTING



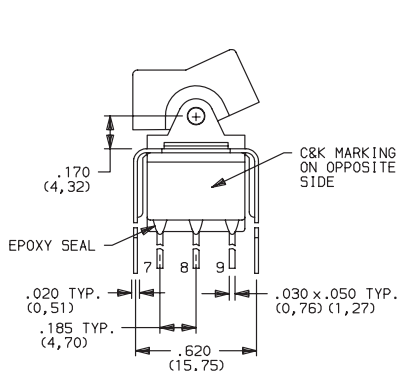
E201J1\_BE2  
DPDT

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

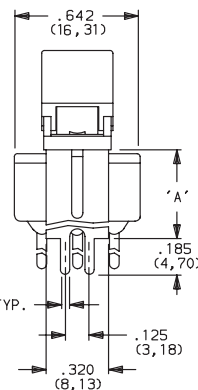
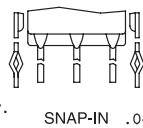
**NOTE:** Available actuators, see pages G-27 thru G-29.

**V4** VERTICAL MOUNT, V-BRACKET

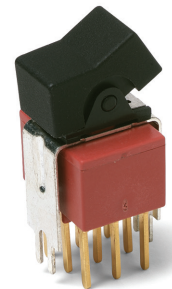
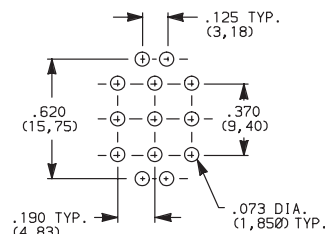
VERTICAL MOUNT, V-BRACKET, SNAP-IN



Actuator Shown In Pos. 1



### PC MOUNTING



E301J1\_BE2  
3PDT

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

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



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>B</b>    | GOLD <sup>1</sup>                  | GOLD <sup>1</sup>      | LOW LEVEL/<br>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.<br>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<br>SILVER <sup>2,3</sup> | GOLD <sup>3</sup>      | LOW LEVEL/DRY<br>CIRCUIT OR POWER | E1XX AND E2XX MODELS: 0.4 VA MAX @20 V AC OR DC MAX. OR<br>7.5 AMPS @125 V AC OR 28 V DC; 3 AMPS @ 250 V AC.<br>DC E3XX MODELS: 0.4 VA MAX. @ 20 V AC OR DC MAX. OR 5 AMPS @<br>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.

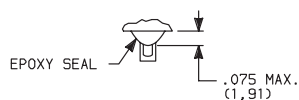
All models with all options when ordered with G, Q, S & R contact material.

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

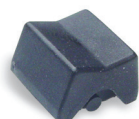


PART NO.

**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

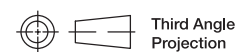


PART NO.

**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.

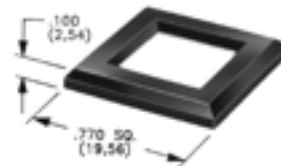
Frame for J11, J21 Actuators



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

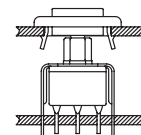
PART NO.

**486802000** BLACK

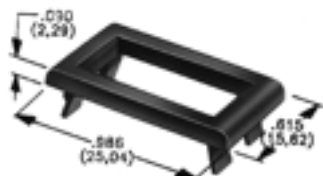
**NOTE:** Additional nuts, screws and lockwashers available separately, see Technical Data section of this catalog.  
Other colors available, consult Customer Service Center.

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.

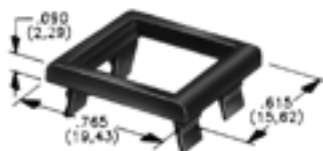
PART NO.  
**452902263**  
**452903000**

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**

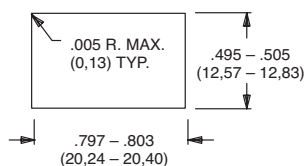
PART NO.  
**432602263**  
**432603000**

PART NO.  
**432702263**  
**432703000**

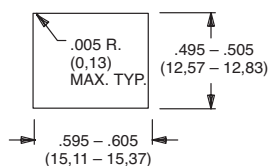
PART NO.  
**432802263** BLACK  
**432803000** RED

### PANEL MOUNTING

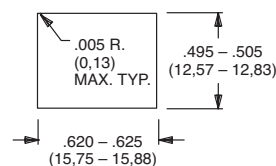
For part numbers  
4529xxxxx, 4527xxxxx,  
4528xxxxx, 4526xxxxx



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

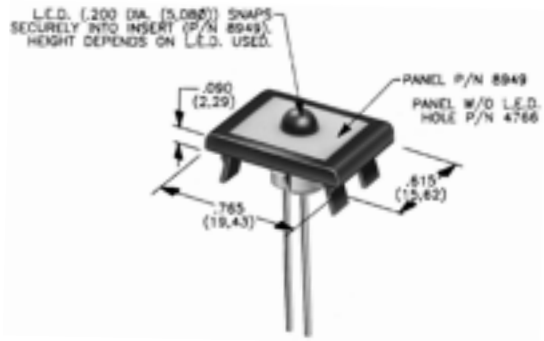
## Sealed Miniature Rocker and Lever Handle Switches

### 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.

# ET Series

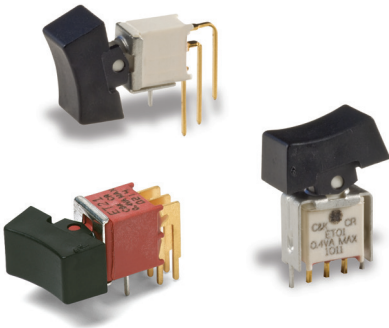
## Sealed Subminiature Rocker Switches

### 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  $\Omega$  typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

**INSULATION RESISTANCE:** 10<sup>9</sup>  $\Omega$  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.

|                                                                                                                                                                                                                                                                                                                          |  |  |                                                                      |  |  |                                                                                                                                                                                                                                                                    |  |  |                                                                                                                                                                                                             |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <div>Switch Function</div> <div><b>ET01</b> SP On-None-On<br/><b>ET02</b> SP Off-None-On<br/><b>ET03</b> SP On-Off-On<br/><b>ET05</b> SP Mom.-Off-Mom.<br/><b>ET07</b> SP On-Off-Mom.<br/><b>ET08</b> SP On-None-Mom.<br/><b>ET21</b> DP On-None-On<br/><b>ET27</b> DP On-Off-Mom.<br/><b>ET28</b> DP On-None-Mom.</div> |  |  | <div>Actuator</div> <div><b>J1</b> Rocker<br/><b>J6</b> Rocker</div> |  |  | <div>Terminations</div> <div><b>A</b> Right angle, PC thru-hole<br/><b>AV</b> Vertical Right angle, PC thru-hole<br/><b>C</b> PC Thru-hole<br/><b>V3</b> V-bracket<br/><b>AV2</b> Vertical Right angle, PC thru-hole<br/><b>SA</b> Right Angle Surface mount</div> |  |  | <div>Contact Material</div> <div><b>B</b> Gold<br/><b>P</b> Gold, matte tin<br/><b>Q</b> Silver<br/><b>S</b> Silver, matte-tin<br/><b>G</b> Gold over silver<br/><b>R</b> Gold over silver, matte-tin</div> |  |  |
|                                                                                                                                                                                                                                                                                                                          |  |  | <div>Seal</div> <div><b>E</b> Epoxy</div>                            |  |  |                                                                                                                                                                                                                                                                    |  |  |                                                                                                                                                                                                             |  |  |
|                                                                                                                                                                                                                                                                                                                          |  |  |                                                                      |  |  | <div>Actuator Color</div> <div><b>2</b> Black<br/><b>1</b> White<br/><b>3</b> Red</div>                                                                                                                                                                            |  |  |                                                                                                                                                                                                             |  |  |

Rocker



G



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

# 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     |                     |        |         |           |
|                                                                                                                                            | ET05      | MOM.            | OFF    | MOM.   |                     |        |         |           |
|                                                                                                                                            | ET07      | ON              | OFF    | MOM.   |                     |        |         |           |
|                                                                                                                                            | ET08      | ON              | NONE   | MOM.   | N/A                 |        |         |           |
|                                                                                                                                            | ET02      | OFF             | NONE   | ON     | OPEN                | N/A    | 3-1     | SPST      |
| <div><div><b>SPDT</b></div><div></div><div></div><div>Part number shown: ET01J6CBE2</div><div>ET02 Models:<br/>Omit terminal 2</div></div> |           |                 |        |        |                     |        |         |           |
| DP                                                                                                                                         | ET21      | ON              | NONE   | ON     | 2-3,5-6             | N/A    | 2-1,5-4 |           |
|                                                                                                                                            | ET27      | ON              | OFF    | MOM.   |                     | OPEN   |         |           |
|                                                                                                                                            | ET28      | ON              | NONE   | MOM.   |                     | N/A    |         |           |
| <div><div><b>DPDT</b></div><div></div><div></div><div>Part number shown: ET21J6CBE2</div></div>                                            |           |                 |        |        |                     |        |         |           |

MOM. = Momentary

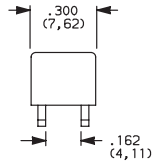
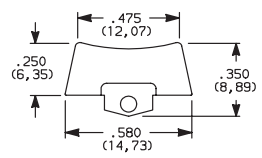
All models with all options when ordered with G, S, R or Q contact material.



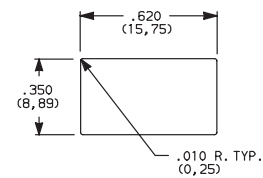
# ET Series Sealed Subminiature Rocker Switches



## J1 ROCKER

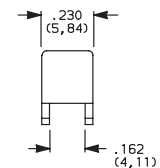
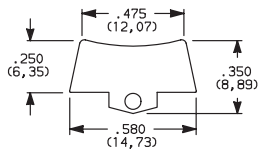


## PANEL MOUNTING

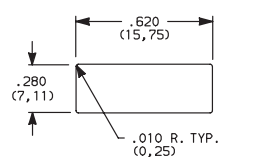


Available with all models except ET0X with A & SA & SA1 terminations.

## J6 ROCKER



## PANEL MOUNTING



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

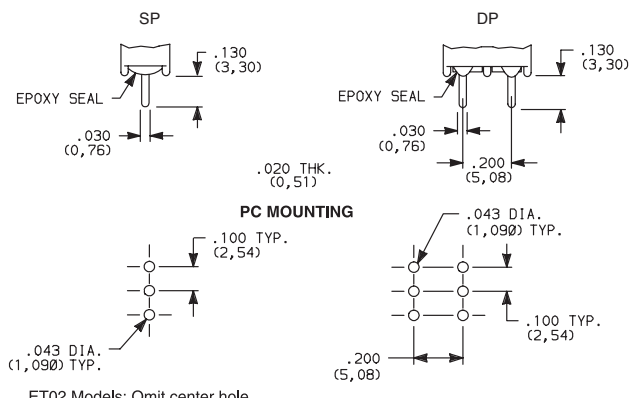
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |
| 3           | RED            |

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

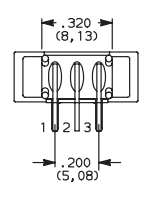
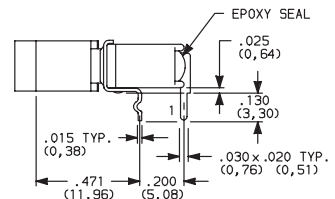
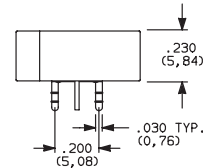
## C PC THRU-HOLE



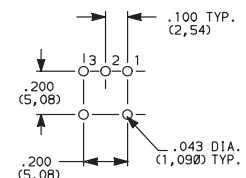
ET02 Models: Omit center hole.

## SP & DP

## A RIGHT ANGLE, PC THRU-HOLE



## PC MOUNTING

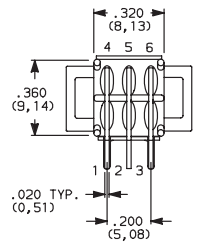
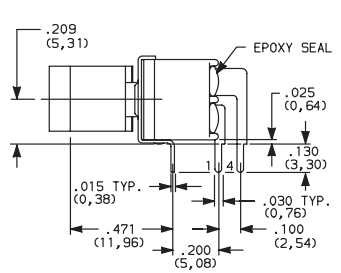
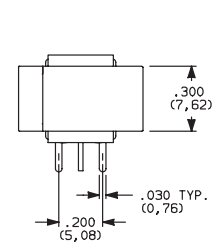


ET01J6ABE2  
Horizontal Actuation  
SPDT

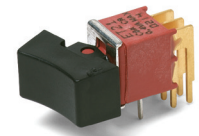
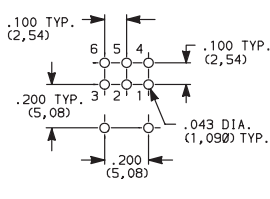
Actuator Shown In Pos. 1

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



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

Rocker



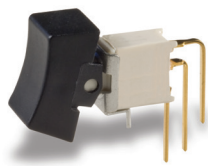
G

C&K

# ET Series Sealed Subminiature Rocker Switches

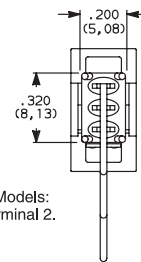
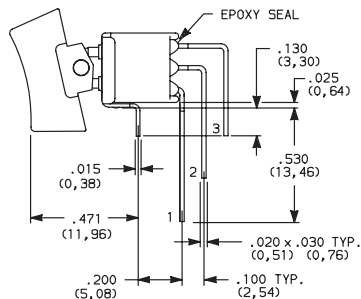
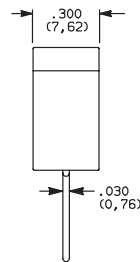
## TERMINATIONS

### AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



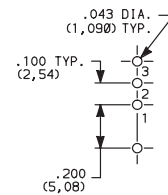
**ET01J1AVBE2**  
Vertical Actuation  
**SPDT**

Actuator Shown In Pos. 1



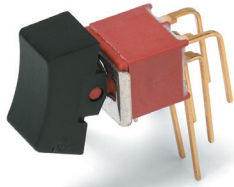
ET02 Models:  
Omit terminal 2.

#### PC MOUNTING



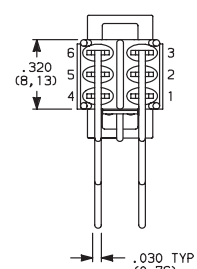
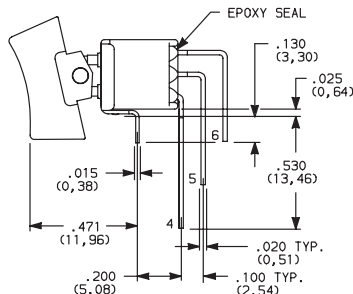
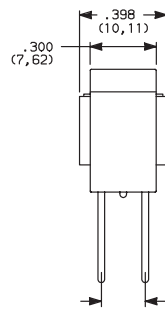
**NOTE:** Terminal bend radii and lead-in manufacturing option.

### AV VERTICAL RIGHT ANGLE, PC THRU-HOLE

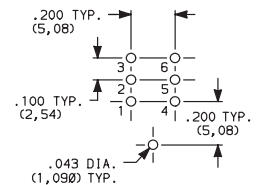


**ET21J1AVBE2**  
Vertical Actuation  
**DPDT**

Actuator Shown In Pos. 1

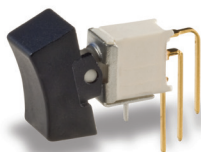


#### PC MOUNTING

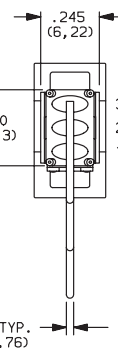
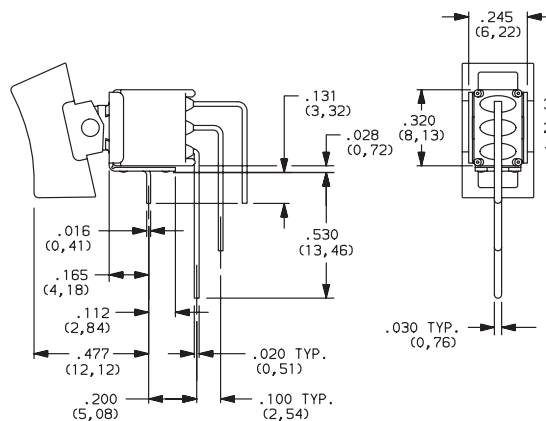
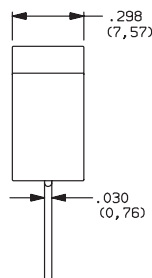


**NOTE:** Terminal bend radii and lead-in manufacturing option.

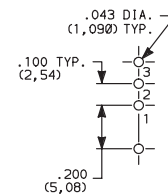
### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE



**ET01J1AV2BE2**  
Vertical Actuation  
**SPDT**



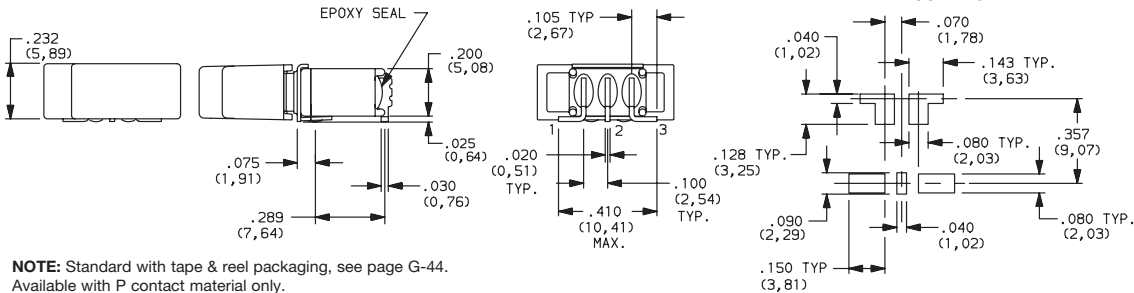
#### PC MOUNTING



# ET Series Sealed Subminiature Rocker Switches

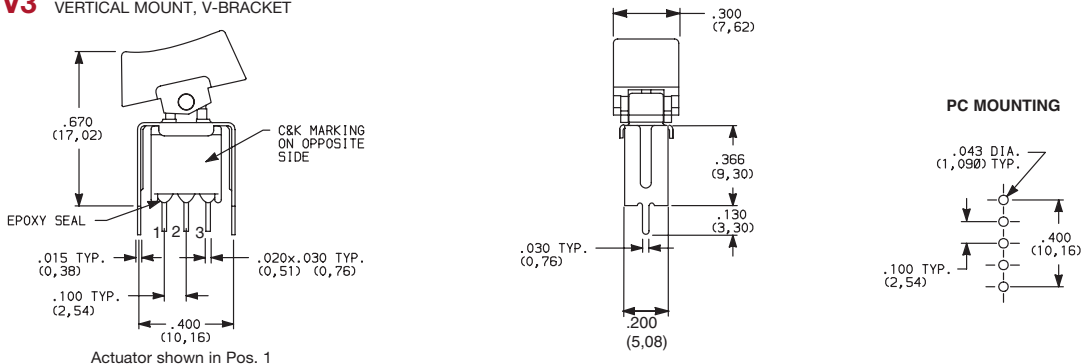
## TERMINATIONS

### SA RIGHT ANGLE, SURFACE MOUNT



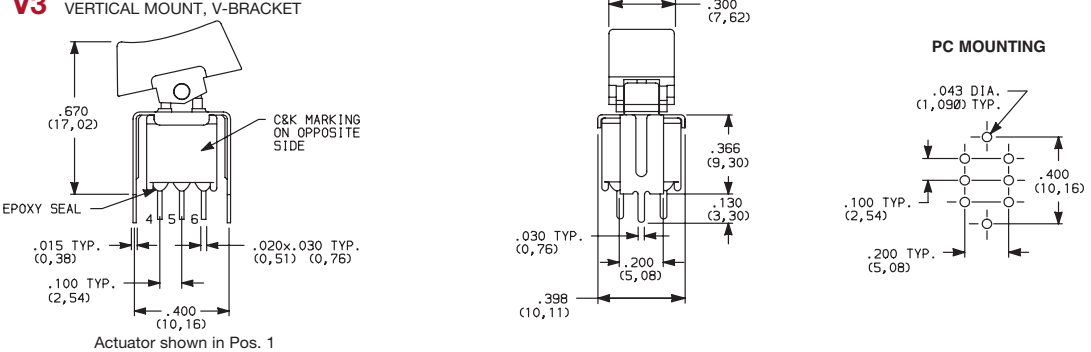
ET01J6SAPE2  
Horizontal Actuation  
SPDT

### V3 VERTICAL MOUNT, V-BRACKET



ET01J1V3BE2  
SPDT

### V3 VERTICAL MOUNT, V-BRACKET



ET21J1V3BE2  
DPDT

## CONTACT MATERIAL

| OPTION CODE | CONTACT MATERIAL                | TERMINAL PLATING       | RATINGS                        |                                                                                                                                                                    |
|-------------|---------------------------------|------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>B</b>    | GOLD <sup>1</sup>               | GOLD <sup>1</sup>      | LOW LEVEL/<br>DRY CIRCUIT      | 0.4 VA MAX. @ 20 V AC OR DC MAX.                                                                                                                                   |
| <b>P</b>    |                                 | MATTE-TIN <sup>6</sup> |                                |                                                                                                                                                                    |
| <b>Q</b>    | SILVER <sup>4,5</sup>           | SILVER <sup>5</sup>    | POWER                          | ETX1 MODELS: 3 AMPS @ 120 V AC OR 28 V DC.<br>ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.                                                                      |
| <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 | ETX1 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 3 AMPS @120 V AC OR 28 V DC.<br>ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR 2 AMPS @ 120 V AC OR 28 V DC. |
| <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.

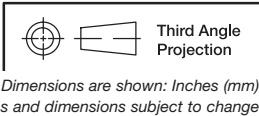
<sup>4</sup> END CONTACTS: Coin silver, silver plated.

<sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, 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  with all options when ordered with G, Q, S & R contact material.

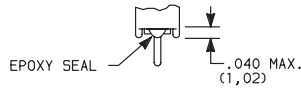


# ET Series Sealed Subminiature Rocker Switches

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

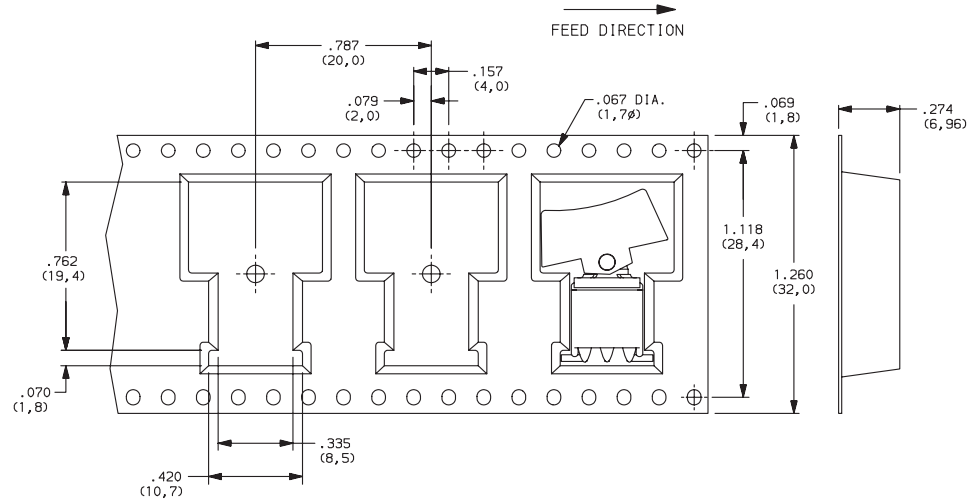
For Hi Temp, Consult Factory

**NOTE:** Other colors available,  
consult Customer Service Center.

## TAPE & REEL SA TERMINATION

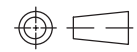
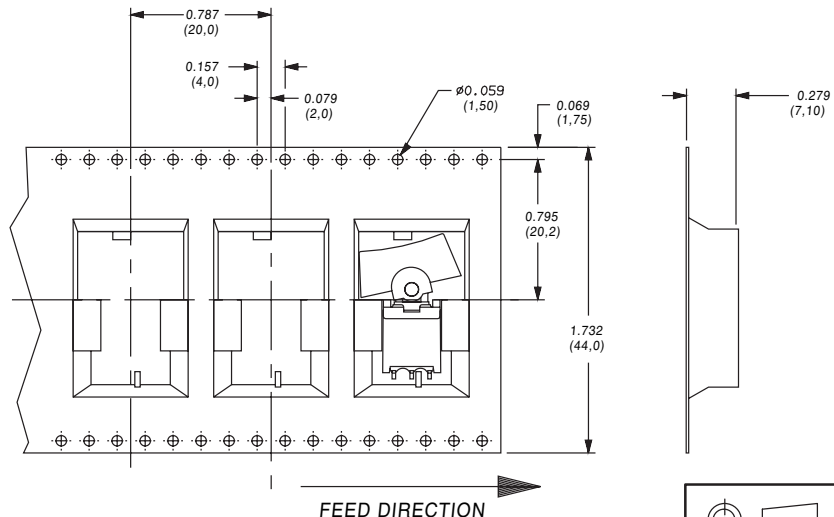
ET01J6SABE (SHOWN)

| 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           |



Third Angle  
Projection

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



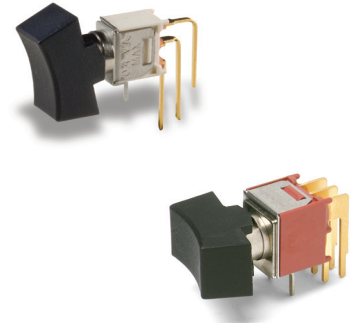
# T Series Subminiature Rocker Switches

## 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  $\Omega$  typ. initial @ 2–4 V DC, 100 mA, for both silver and gold plated contacts.

**INSULATION RESISTANCE:** 10<sup>9</sup>  $\Omega$  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.

|                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                  |                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <p><b>Switch Function</b></p> <p><b>T101</b> SP On-None-On</p> <p><b>T102</b> SP Off-None-On</p> <p><b>T103</b> SP On-Off-On</p> <p><b>T105</b> SP Mom.-Off-Mom.</p> <p><b>T107</b> SP On-Off-Mom.</p> <p><b>T201</b> DP On-None-On</p> <p><b>T205</b> DP Mom.-Off-Mom.</p> | <p><b>Actuator</b></p> <p><b>J1</b> Rocker, .300" wide</p> <p><b>J6</b> Rocker, .230" wide</p> <p><b>Terminations</b></p> <p><b>A</b> Right angle, PC thru-hole</p> <p><b>AV</b> Vertical Right angle, PC thru-hole</p> <p><b>Z</b> Solder lug</p> <p><b>V3</b> V-bracket</p> | <p><b>Contact Material</b></p> <p><b>B</b> Gold</p> <p><b>P</b> Gold, matte-tin</p> <p><b>Q</b> Silver</p> <p><b>G</b> Gold over silver</p> <p><b>R</b> Gold over silver, matte-tin</p> <p><b>Seal</b></p> <p><b>E</b> Epoxy</p> | <p><b>Actuator Color</b></p> <p><b>2</b> Black</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|

**SWITCH FUNCTION**  **ACTUATOR COLOR**

**SPDT**



Terminal Nos.  
For Reference Only

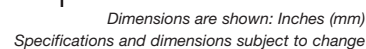
**DPDT**



MOM. = Momentary

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

G

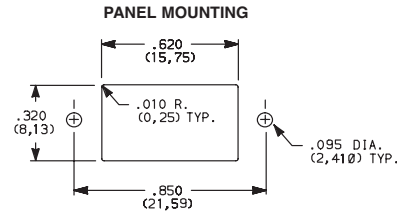
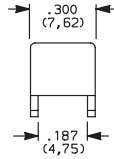
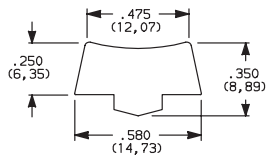


# T Series Subminiature Rocker Switches

## ACTUATOR

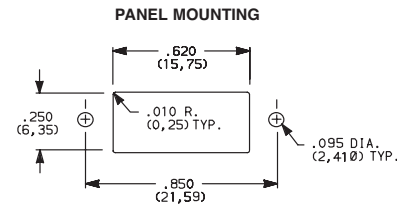
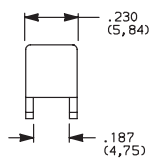
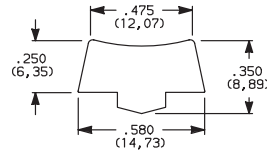


### J1 ROCKER, .300 WIDE



Standard with all models except T10X with A terminations.

### J6 ROCKER, .230 WIDE



Standard with T10X model with A terminations.

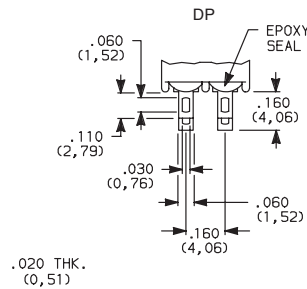
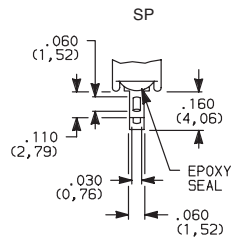
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |

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

## TERMINATIONS



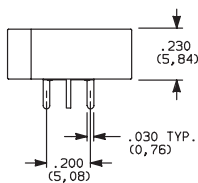
### Z SOLDER LUG



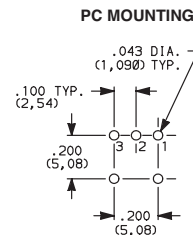
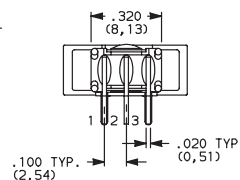
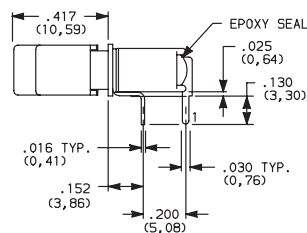
### SP and DP

Not available with P or R contact material.

### A RIGHT ANGLE, PC THRU-HOLE



Actuator Shown In Pos. 1



T101J6ABE2  
Horizontal Actuation  
SPDT

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



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

www.ckswitches.com

Rocker



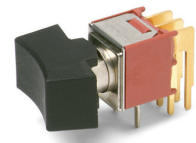
G

C&K

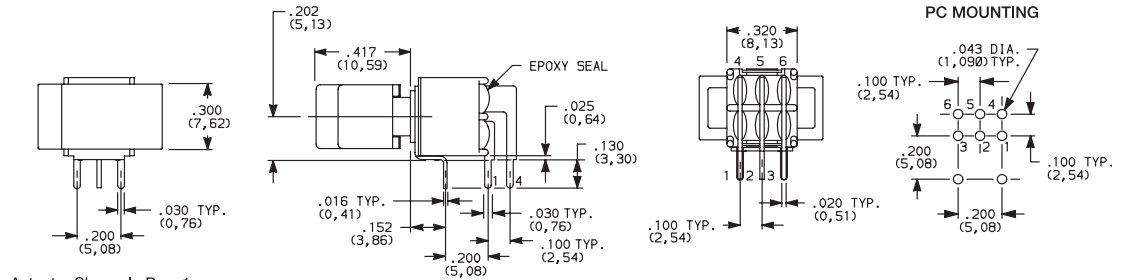
# T Series Subminiature Rocker Switches

## TERMINATIONS

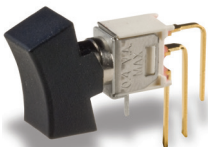
### A RIGHT ANGLE, PC THRU-HOLE



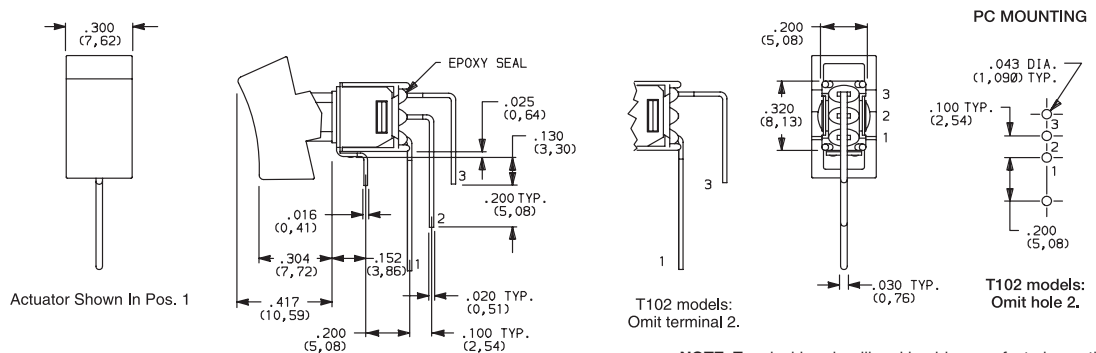
**T201J1ABE2**  
Horizontal Actuation  
**DPDT**



### AV VERTICAL RIGHT ANGLE, PC THRU-HOLE

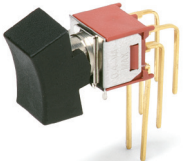


**T101J1AVBE2**  
Vertical Actuation  
**SPDT**

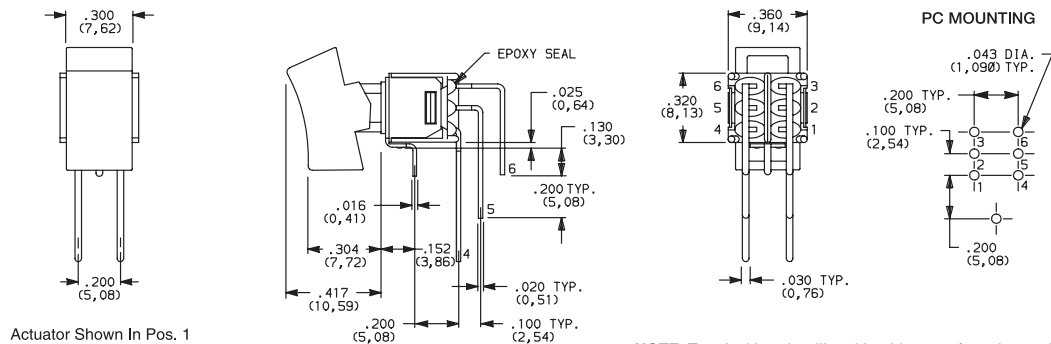


**NOTE:** Terminal bend radii and lead-in manufacturing option.

### AV VERTICAL RIGHT ANGLE, PC THRU-HOLE



**T201J1AVBE2**  
Vertical Actuation  
**DPDT**

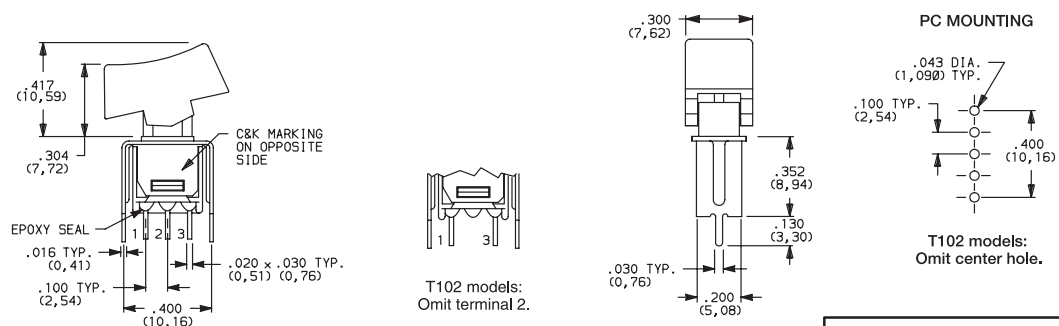


**NOTE:** Terminal bend radii and lead-in manufacturing option.

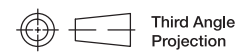
### V3 VERTICAL MOUNT, V-BRACKET



**T101J1V3BE2**  
**SPDT**



Actuator Shown In Pos. 1



Third Angle  
Projection

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

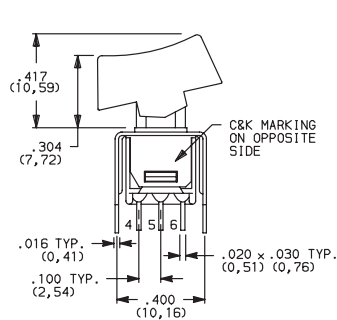
**C&K**



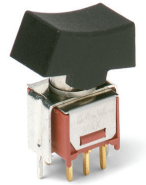
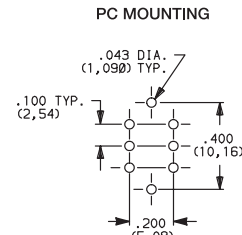
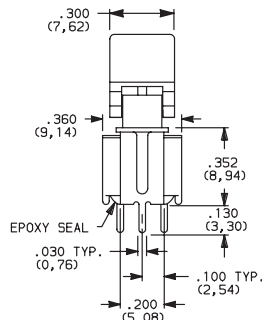
# T Series Subminiature Rocker Switches

## TERMINATIONS

### V3 VERTICAL MOUNT, V-BRACKET



Actuator Shown In Pos. 1



T201J1V3BE2  
DPDT

## CONTACT MATERIAL

| OPTION CODE | CONTACT MATERIAL                   | TERMINAL PLATING       | RATINGS                           |                                                                                                                                                                           |
|-------------|------------------------------------|------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>B</b>    | GOLD <sup>3</sup>                  | GOLD <sup>1</sup>      | LOW LEVEL/<br>DRY CIRCUIT         | 0.4 VA MAX. @ 20 V AC OR DC MAX.                                                                                                                                          |
| <b>P</b>    |                                    | MATTE-TIN <sup>6</sup> |                                   |                                                                                                                                                                           |
| <b>Q</b>    | SILVER <sup>4,5</sup>              | SILVER <sup>5</sup>    | POWER                             | TX01 MODELS: 3 AMPS @ 120 V AC OR 28 V DC.<br>ALL OTHER MODELS: 2 AMPS @ 120 V AC OR 28 V DC.                                                                             |
| <b>G</b>    | GOLD OVER<br>SILVER <sup>2,3</sup> | GOLD <sup>3</sup>      | LOW LEVEL/DRY<br>CIRCUIT OR POWER | TX01 MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR<br>3 AMPS @ 120 V AC OR 28 V DC.<br>ALL OTHER MODELS: 0.4 VA MAX @ 20 V AC OR DC MAX. OR<br>2 AMPS @ 120 V AC OR 28 V DC. |
| <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, silver plated.

<sup>6</sup> 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.

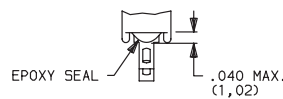
B contact material standard with A, AV, V3 terminations.

Q contact material standard with C & Z terminations.

P & R contact materials not available with Z terminations.

## SEAL

### E EPOXY SEAL



Rocker



G

**C&K**



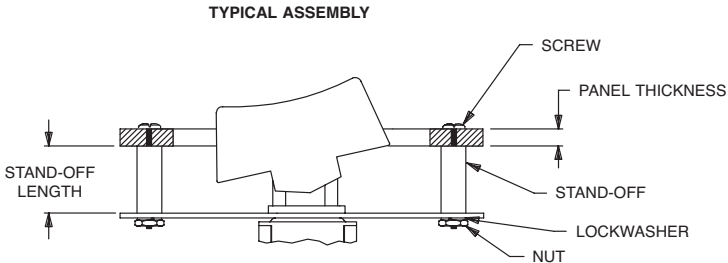
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# 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.

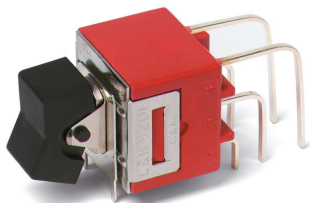
468102263 BLACK

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  $\Omega$  typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: 10<sup>9</sup>  $\Omega$  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        | <b>9201</b> | 6 AMPS  | ON              | ON     | 2-3,5-6             | 2-1,5-4 |           |
|           | <b>9221</b> | 10 AMPS | ON              | ON     | 2-3,5-6             | 2-1,5-4 |           |

**DPDT**

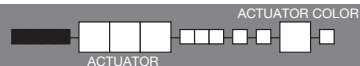
All 9000 Series models meet international dimensional and electrical requirements.



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

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

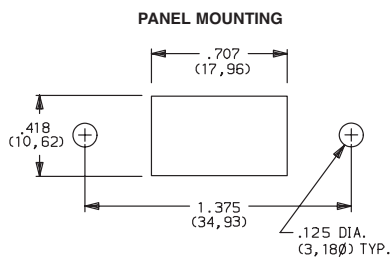
## ACTUATOR-PANEL MOUNT



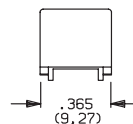
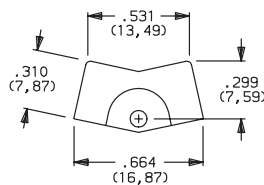
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| <b>2</b>    | BLACK          |
| <b>1</b>    | WHITE          |
| <b>3</b>    | RED            |

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

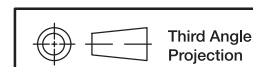
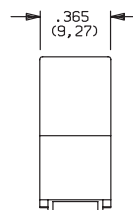
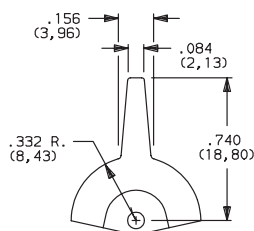
**NOTE:** Hardware: two each—mounting screws, nuts, lockwashers and standoffs for 1/8 inch thick panel are supplied standard on all switches with panel mounting brackets. Actuators available separately, see page G-55. Hardware available separately, see Technical Data section of this catalog.



### J1 ROCKER



### J2 LEVER



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



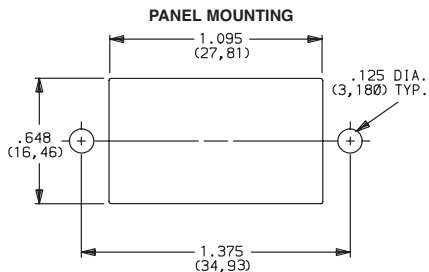
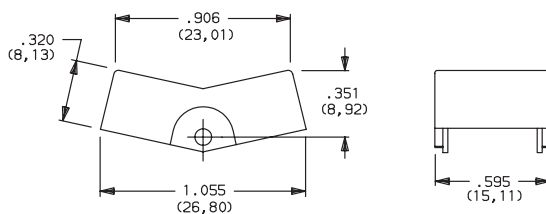
# 9000 Series Power Rocker and Lever Handle Switches

## ACTUATOR-PANEL MOUNT

ACTUATOR COLOR

ACTUATOR

### 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.

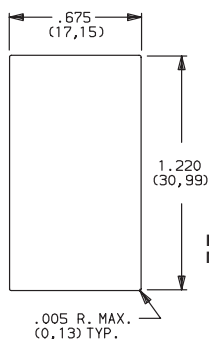
## ACTUATOR-REAR MOUNT

ACTUATOR COLOR

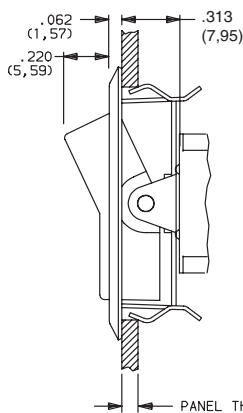
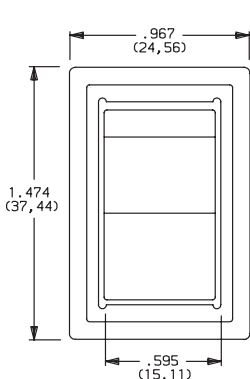
ACTUATOR

FRAME COLOR

### J37 ROCKER WITH METAL FRAME



PANEL MOUNTING



PANEL THICKNESS  
.062 TO .125  
(1,57) (3,18)

| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |
| 3           | RED            |

| OPTION CODE | FRAME COLOR |
|-------------|-------------|
| 2           | BLACK       |

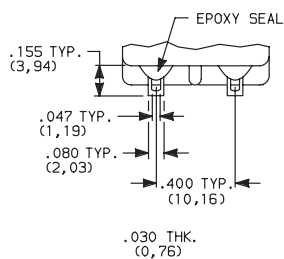
Actuator finish: Matte. Frame finish: Gloss. Other colors, custom actuator markings and legends available, consult Customer Service Center.

**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.

Not available with AV2 termination.

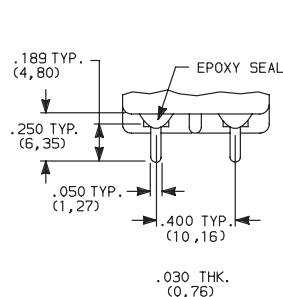
## TERMINATIONS

### Z SOLDER LUG



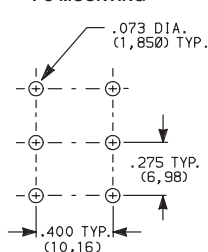
9201 Only

### C PC THRU-HOLE

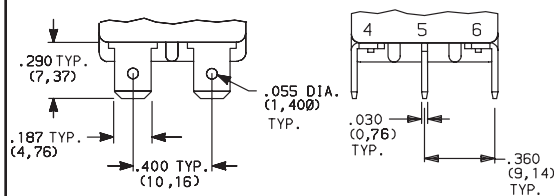


9201 Only

### PC MOUNTING



### 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.



Third Angle  
Projection

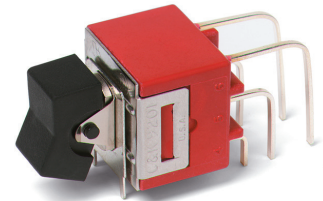
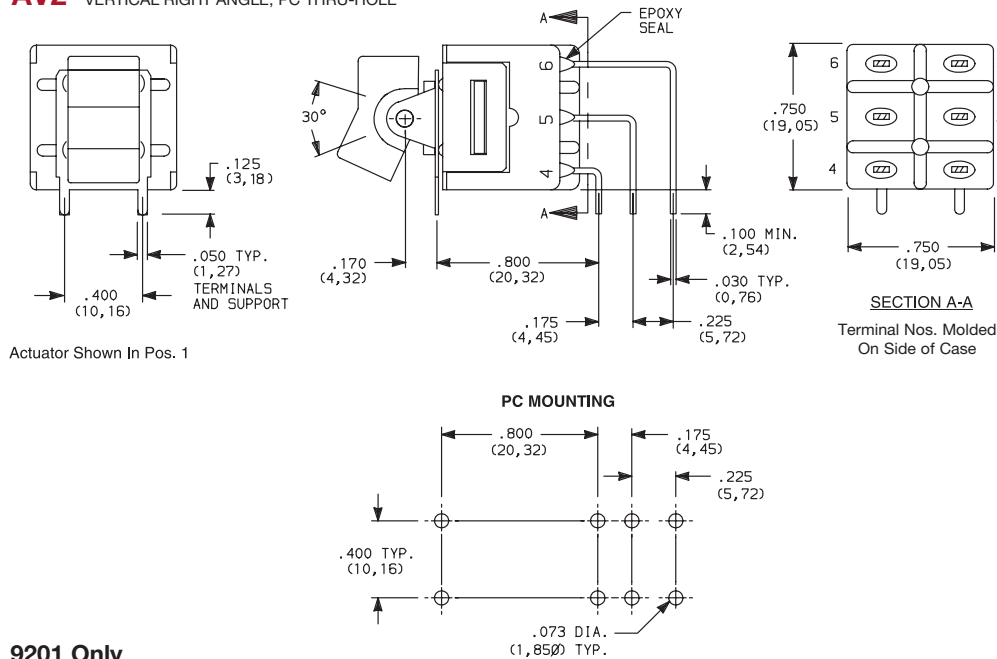
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

www.ckswitches.com

# 9000 Series Power Rocker and Lever Handle Switches

## TERMINATIONS

### AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE



9201J1AV2QE2  
Vertical Actuation  
DPDT

### 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)<br>3 AMPS 250 VAC 50/60 Hz T85 10,000 cycles<br>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<br>5 AMPS 250 VAC 50/60 Hz T85 10,000 cycles<br>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.

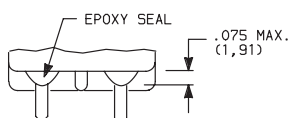
All 9000 Series models meet international dimensional and electrical requirements.



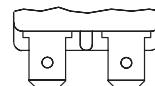
## SEAL

### E EPOXY SEAL

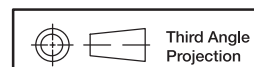
### D NO EPOXY SEAL



Not available with 9221 model or Z4 terminations.



Must be ordered with 9221 model and Z4 termination.



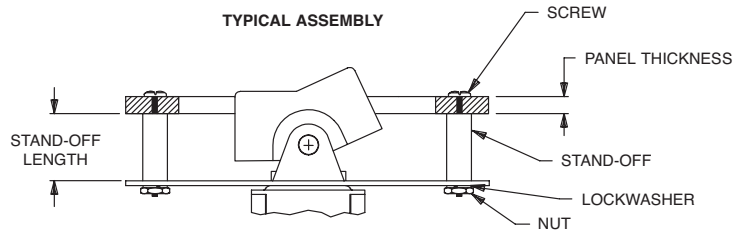
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



# 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 |
|------------------|-----------------|-----------------|
| <b>761101000</b> | 1/16 IN. (1,59) | .295 (7,49)     |
| <b>761102000</b> | 3/32 IN. (2,38) | .264 (6,71)     |
| <b>761103000</b> | 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.

Rocker



Third Angle  
Projection

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

**C&K**

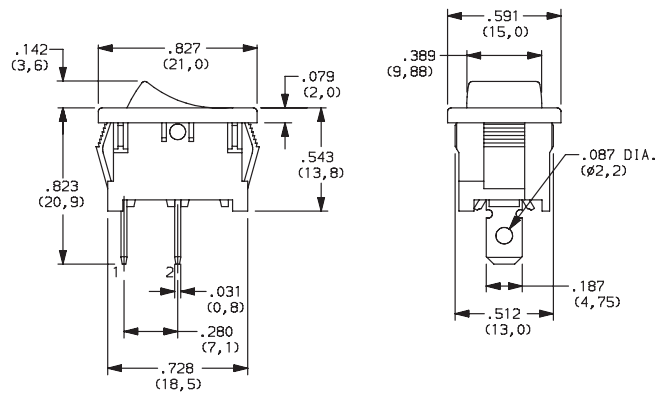


# DA Series Miniature Single Pole Rocker Switches

## SWITCH FUNCTION



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



Shown in Pos. 1

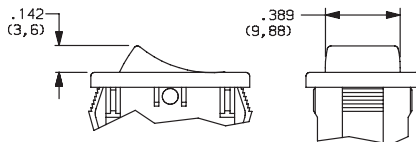
## ACTUATOR



**J1** ROCKER

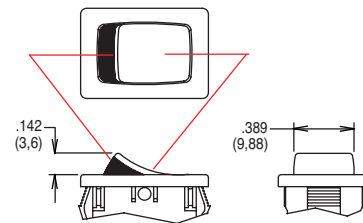
**\*J3** ILLUMINATED ROCKER

**J2** TWO-TONE 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



**NOTE:**

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



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

[www.ckswitches.com](http://www.ckswitches.com)

15 May 20

G-58

Rocker



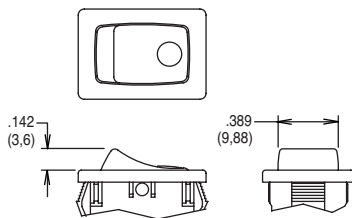
G

**C&K**

# DA Series Miniature Single Pole Rocker Switches

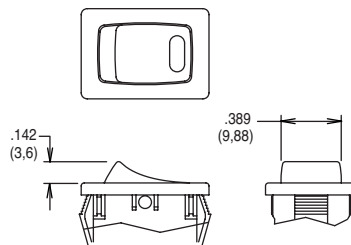
## ACTUATOR

### 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

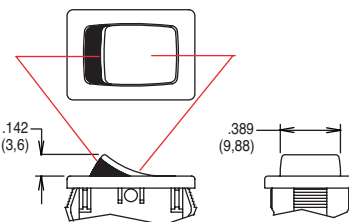


**NOTE:** Available with DA102 switch function and 6 lamp rating combinations only. Not available with O2 and A termination options.  
\* J5 actuator not available with Termination option "17" solder lug

## ACTUATOR COLOR

|                        | OPTION CODE | ACTUATOR COLOR     |
|------------------------|-------------|--------------------|
| <b>J1 only</b>         | <b>2</b>    | BLACK              |
|                        | <b>1</b>    | WHITE              |
|                        | <b>3</b>    | RED                |
| <b>J3, J4, J5 only</b> | <b>R</b>    | RED, ILLUMINATED   |
|                        | <b>A</b>    | AMBER, ILLUMINATED |
|                        | <b>G</b>    | GREEN, ILLUMINATED |

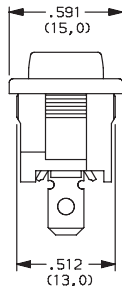
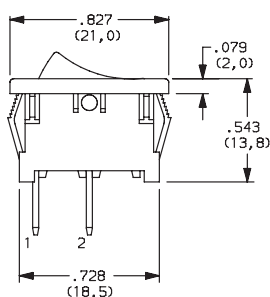
|                | OPTION CODE | ACTUATOR COLOR TOP | ACTUATOR COLOR BOTTOM |
|----------------|-------------|--------------------|-----------------------|
| <b>J2 only</b> | <b>1</b>    | WHITE              | RED                   |
|                | <b>2</b>    | WHITE              | BLACK                 |
|                | <b>3</b>    | RED                | WHITE                 |
|                | <b>4</b>    | BLACK              | WHITE                 |
|                | <b>5</b>    | BLACK              | RED                   |



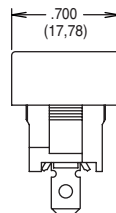
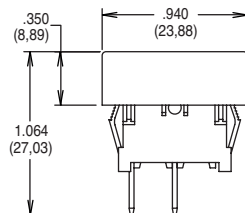
## MOUNTING STYLE/COLOR

### S2 SNAP-IN, BLACK

### S1 SNAP-IN, WHITE

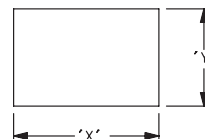


### G2 GUARD, BLACK



**NOTE:** Available with DA10X switch functions only.

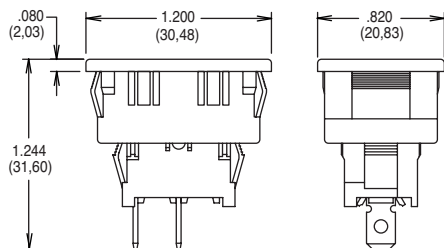
### S2, S1 & G2 PANEL MOUNTING



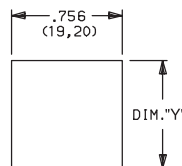
| PANEL THICKNESS         | "X"                   | "Y"                   |
|-------------------------|-----------------------|-----------------------|
| 0.030-0.049 (0,75-1,25) | 0.756-.004 (19,2-0,1) | 0.512+.004 (13,0+0,1) |
| 0.049-0.079 (1,25-2,0)  | 0.764-.004 (19,4-0,1) | 0.512+.004 (13,0+0,1)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



### B2 PANEL MOUNTING

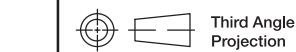


| PANEL THICKNESS         | "Y"           |
|-------------------------|---------------|
| 0.030-0.049 (0,75-0,25) | 1.068 (27,13) |
| 0.049-0.079 (1,25-2,0)  | 1.076 (27,33) |
| 0.079-0.118 (2,0-3,0)   | 1.092 (27,74) |

**NOTE:** Available with DA10X switch functions only.



15 May 20



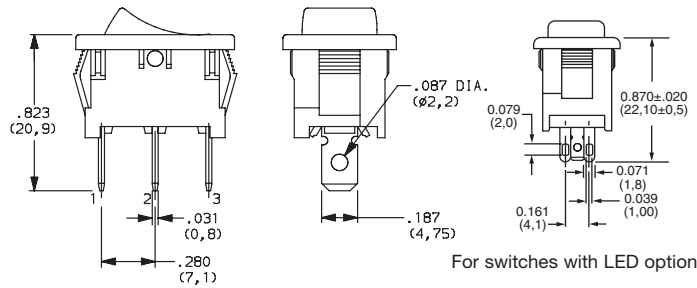
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



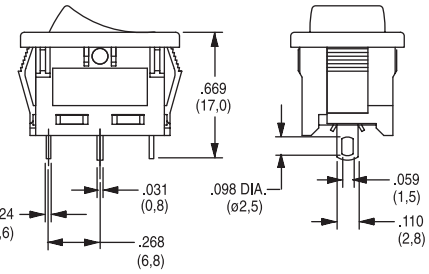
# DA Series Miniature Single Pole Rocker Switches

## TERMINATION

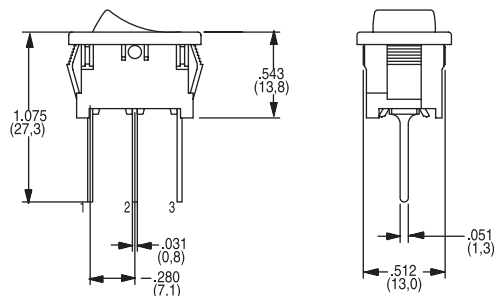
### 15 .187" QUICK CONNECT



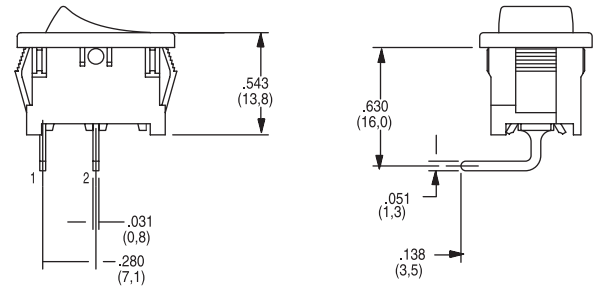
### 17 SOLDER LUG



### 02\* THRU-HOLE



### A\* RIGHT ANGLE



\* NOTE - 02 and A termination options not offered with J3, J4 or J5 actuator options.

## ACTUATOR MARKING

### NONE NO MARKING



### D ON-OFF



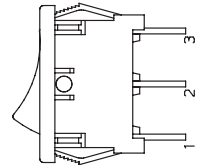
### H O I



### 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 |                                                                                       |
|-------------|-------------------------------|---------|---------------------------------------------------------------------------------------|
|             |                               | POWER   |                                                                                       |
| 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

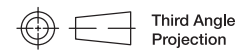
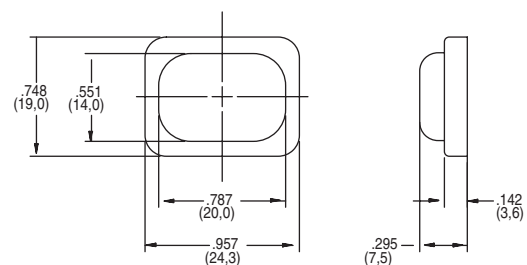
6 LED RATING @ 10 mA  $V_f=1.85V$

7 125 VAC 33kΩ NEON

8 250 VAC 150kΩ NEON

## ACCESSORIES

### 216C00000 IP54 SPLASH PROOF RUBBER BOOT



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                 | Actuator         | Actuator Color | Mounting Style/Color                             | Terminations                       | Actuator Markings             | Contact Material                                        |
|---------------------------------|------------------|----------------|--------------------------------------------------|------------------------------------|-------------------------------|---------------------------------------------------------|
| <b>D101</b> SPDT, On-None-On    | <b>J1</b> Rocker | <b>2</b> Black | <b>S2</b> Snap-in, black                         | <b>15</b> Quick connect            | <b>NONE</b> No marking        | <b>QA</b> Silver                                        |
| <b>D102</b> SPST, On-None-Off   | <b>J5</b> Lever  | <b>1</b> White | <b>B2</b> Recessed snap-in actuator guard, black | <b>A</b> Right angle, PC thru-hole | <b>D</b> ON-OFF               | Gold plating options available contact Customer Service |
| <b>D103</b> SPDT, On-Off-On     |                  | <b>3</b> Red   | <b>G2</b> Actuator guard, black                  | <b>02</b> PC Thru-hole             | <b>H</b> 0 I                  |                                                         |
| <b>D105</b> SPDT, Mom.-Off-Mom. |                  |                | <b>S1</b> Snap-in, white                         | <b>05</b> Twisted quick connect    | <b>N</b> Large dot            |                                                         |
| <b>D108</b> SPDT, Mom.-None-On  |                  |                |                                                  | <b>06</b> Extended PC thru-hole    | <b>P</b> 0 -                  |                                                         |
| <b>D201</b> DPDT, On-None-On    |                  |                |                                                  | <b>17</b> Wireable quick connect   | <b>R</b> Red rectangle on end |                                                         |
| <b>D202</b> DPST, On-None-Off   |                  |                |                                                  |                                    | <b>U</b> Large dot on end     |                                                         |
| <b>D203</b> DPDT, On-Off-On     |                  |                |                                                  |                                    |                               |                                                         |
| <b>D501</b> SPDT, On-None-On    |                  |                |                                                  |                                    |                               |                                                         |
| <b>D502</b> SPST, On-None-Off   |                  |                |                                                  |                                    |                               |                                                         |
| <b>D503</b> SPDT, On-Off-On     |                  |                |                                                  |                                    |                               |                                                         |
| <b>D508</b> SPDT, Mom.-None-On  |                  |                |                                                  |                                    |                               |                                                         |
| <b>D601</b> DPDT, On-None-On    |                  |                |                                                  |                                    |                               |                                                         |
| <b>D602</b> DPST, On-None-Off   |                  |                |                                                  |                                    |                               |                                                         |
| <b>D608</b> DPDT, Mom.-None-On  |                  |                |                                                  |                                    |                               |                                                         |



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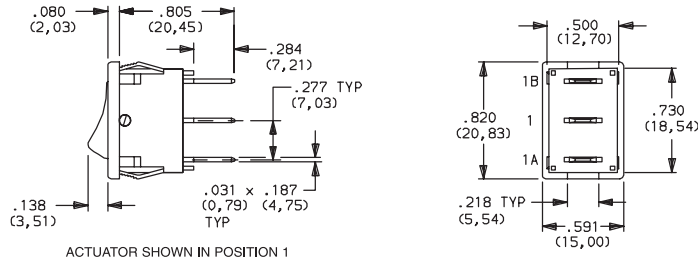
# D Series Miniature Snap-in Power Rocker Switches

## 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<br>D502 | 4<br>10     | ON                                                                                | NONE                                                                              | OFF                                                                               | 1-1A                                                                              | N/A                                                                                | OPEN                                                                                | SPST<br> |
|           | D101<br>D501 | 4<br>10     | ON                                                                                | NONE                                                                              | ON                                                                                |                                                                                   |                                                                                    | OPEN                                                                                | 1-1B                                                                                        |
|           | D103<br>D503 | 4<br>10     |                                                                                   | OFF                                                                               |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                             |
|           | D105         | 4           |                                                                                   | MOM.                                                                              |                                                                                   |                                                                                   | OFF                                                                                |                                                                                     |                                                                                             |
|           | D108<br>D508 | 4<br>10     | MOM.                                                                              | NONE                                                                              | ON                                                                                |                                                                                   | N/A                                                                                |                                                                                     |                                                                                             |

### SPDT



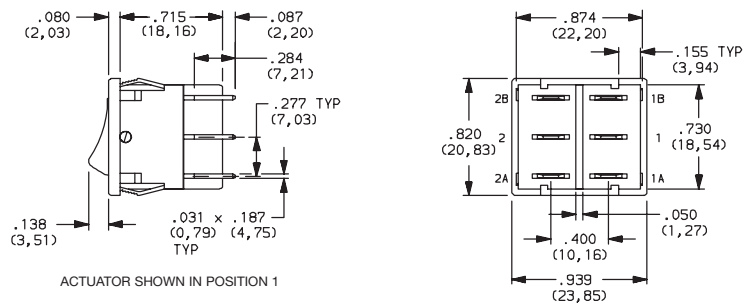
ACTUATOR SHOWN IN POSITION 1

TERMINAL NOS.  
FOR REF. ONLY

Part number shown: D101J12S215QA

|             |             |      |      |      |     |            |      |            |      |                                                                                       |
|-------------|-------------|------|------|------|-----|------------|------|------------|------|---------------------------------------------------------------------------------------|
| DP          | <b>D202</b> | 4    | ON   | NONE | OFF | 1-1A, 2-2A | N/A  | OPEN       | DPST |    |
|             | <b>D602</b> | 10   |      |      |     |            |      | 1-1B, 2-2B |      |                                                                                       |
|             | <b>D201</b> | 4    | ON   | NONE | ON  |            | OPEN | 1-1B, 2-2B | DPDT |  |
|             | <b>D601</b> | 10   |      | OFF  |     |            |      |            |      |                                                                                       |
|             | <b>D203</b> | 4    |      |      |     |            |      |            |      |                                                                                       |
| <b>D608</b> | 10          | MOM. | NONE |      | N/A |            |      |            |      |                                                                                       |

### DPDT



ACTUATOR SHOWN IN POSITION 1

TERMINAL NOS.  
FOR REF. ONLY

Part number shown: D201J12S215QA

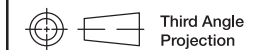
MOM. = Momentary

\*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

**C&K**

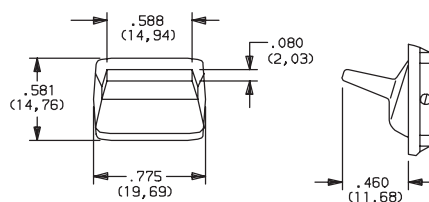
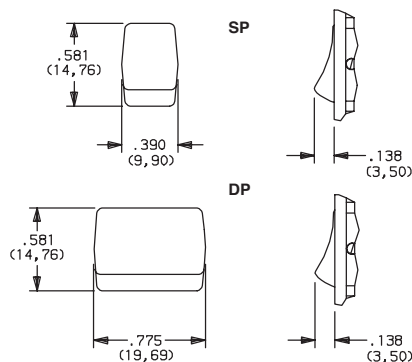
15 May 20

# D Series Miniature Snap-in Power Rocker Switches



## J1 ROCKER

## J5 LEVER



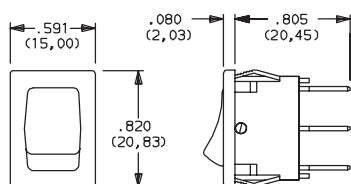
| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |
| 3           | RED            |

**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

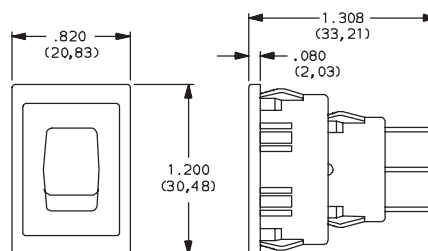
## S SNAP-IN



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

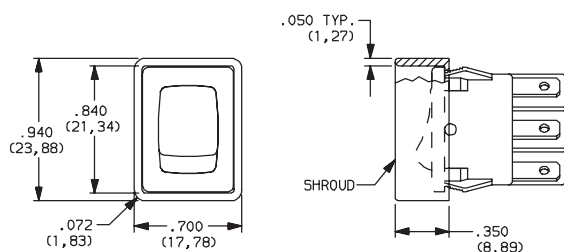
**NOTE:** Frame finish on housing: matte. Other colors available, consult Customer Service Center.

## B2 RECESSED SNAP-IN ACTUATOR GUARD, BLACK



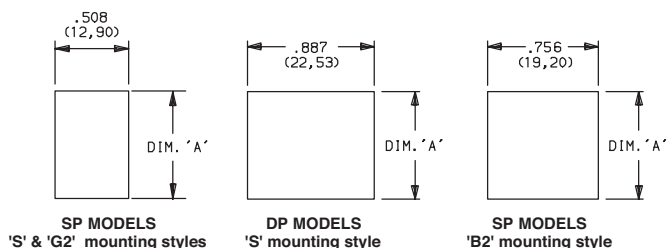
**NOTE:** Vertical mount, SP models only.

## G2 ACTUATOR GUARD, BLACK



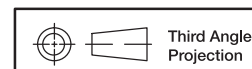
**NOTE:** Vertical mount, SP models only.

## 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.



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



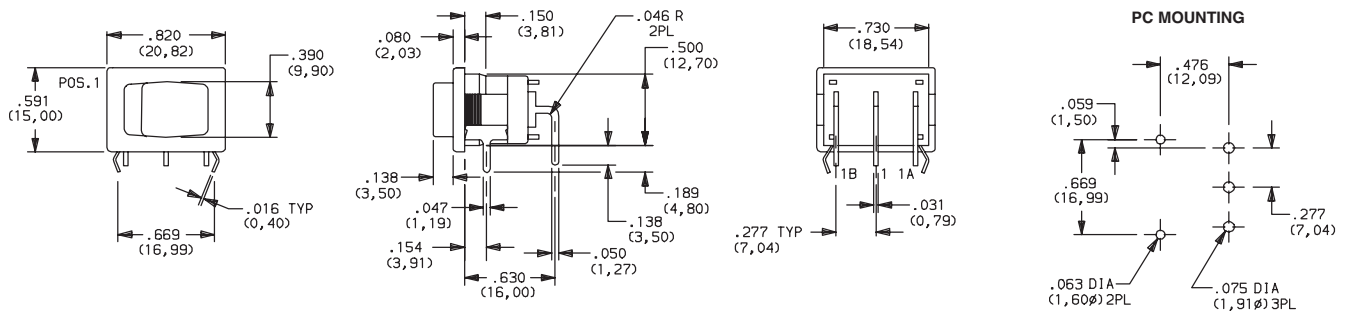
15 May 20



# D Series Miniature Snap-in Power Rocker Switches

## TERMINATIONS

### A RIGHT ANGLE, PC THRU-HOLE

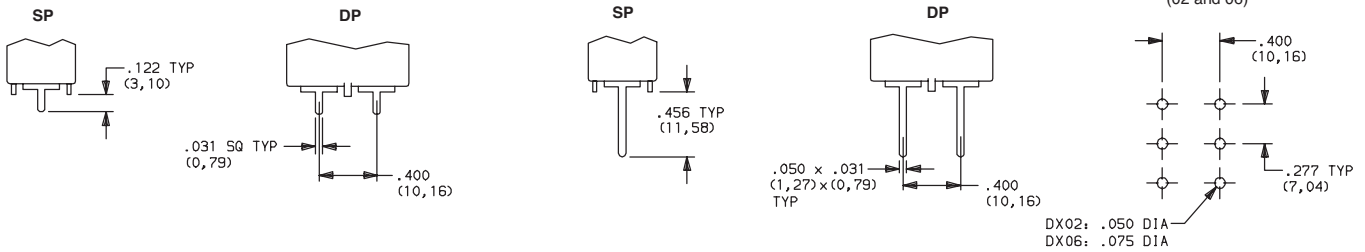


Available with D101, D102, D501, D502 SP models only.

## TERMINATIONS

### 02 PC THRU-HOLE

### 06 EXTENDED PC THRU-HOLE



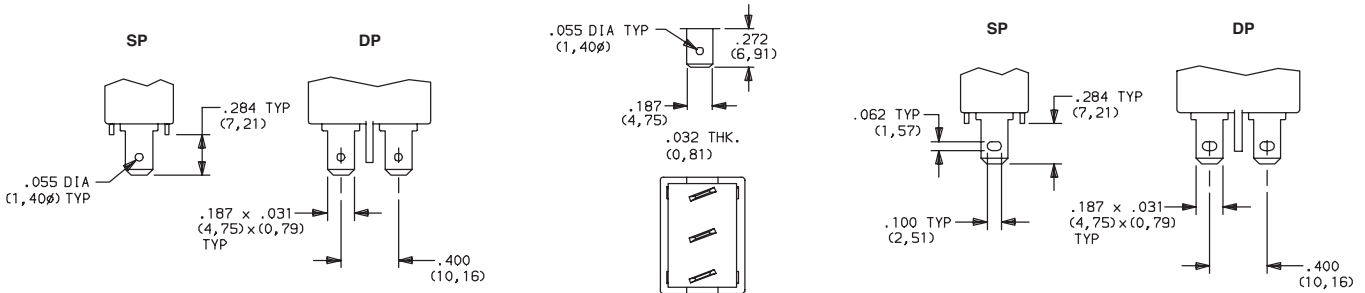
Available with DX01 and DX02 models only.

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

[www.ckswitches.com](http://www.ckswitches.com)

Rocker

G

**C&K**

15 May 20

G-64

## Miniature Snap-in Power Rocker Switches

| OPTION CODE | CONTACT AND TERMINAL MATERIAL | RATINGS                                                         |
|-------------|-------------------------------|-----------------------------------------------------------------|
| QA          | SILVER <sup>1</sup>           | 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                  |

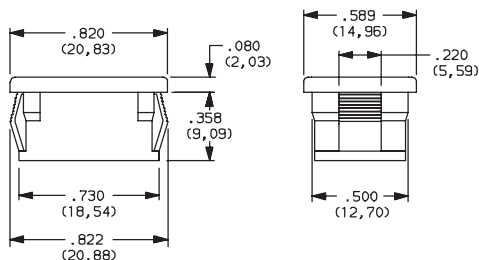
<sup>1</sup>MOVABLE CONTACT: D10X and D20X MODELS: Copper, silver plated.  
D50X and D60X MODELS: Coin silver, silver plated.



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

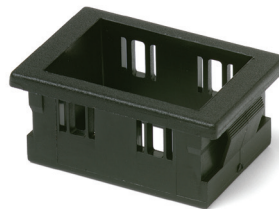
## AVAILABLE HARDWARE

**Insert  
SP Only**



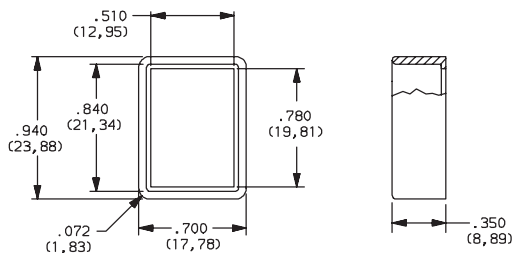
**PART NO.**  
**057190200** BLACK  
Material: Nylon 6/6  
Finish: Matte

### Recessed Actuator Guard, SP Only



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

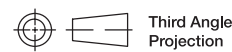
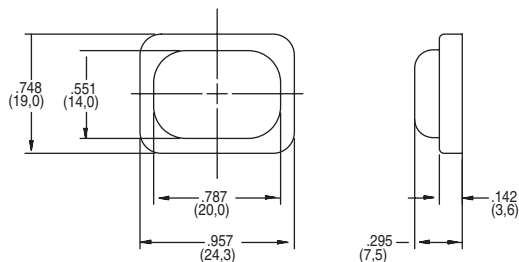
### Actuator Guard



**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



# 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

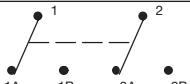
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-66 and G-69. For additional options not shown in catalog, consult Customer Service Center.

|                                 |                  |                       |                                                  |                         |                          |                         |
|---------------------------------|------------------|-----------------------|--------------------------------------------------|-------------------------|--------------------------|-------------------------|
| <b>Switch Function</b>          | <b>Actuator</b>  | <b>Actuator Color</b> | <b>Housing Style/Color</b>                       | <b>Terminations</b>     | <b>Actuator Markings</b> | <b>Contact Material</b> |
| <b>DM21</b> DPDT, On-On         | <b>J1</b> Rocker | <b>2</b> Black        | <b>S2</b> Snap-in, black                         | <b>05</b> Quick connect | <b>NONE</b> No marking   | <b>Q</b> Silver         |
| <b>DM22</b> DPST, On-Off        |                  | <b>1</b> White        | <b>B2</b> Recessed snap-in actuator guard, black |                         | <b>D</b> ON-OFF          |                         |
| <b>DM61</b> (STD.) DPDT, On-On  |                  |                       | <b>G2</b> Actuator guard, black                  |                         | <b>H</b> 0 1             |                         |
| <b>DM62</b> (STD.) DPST, On-Off |                  |                       |                                                  |                         | <b>P</b> 0 -             |                         |

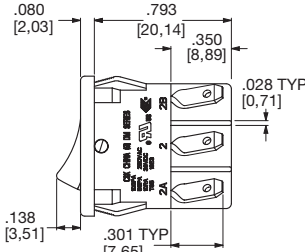
# DM Series

## 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                                                                              | DPST  |
|           | DM62      | 10          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                          |
|           | DM21      | 3           | ON                                                                                | ON                                                                                | 1-1A, 2-2A                                                                        | 1-1B, 2-2B                                                                        | DPDT  |
|           | DM61      | 10          |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                          |

DPDT



PART NUMBER SHOWN: DM21J1XS205Q

NOTES 1. ACTUATOR SHOWN IN POSITION 1-'ON' POSITION

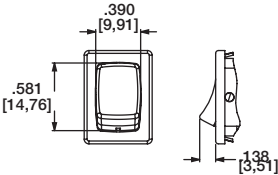
RATINGS: See page G-65 for complete ratings.


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

ACTUATOR

ACTUATOR COLOR

J1 ROCKER

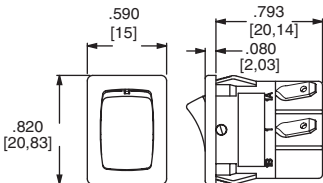


| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |

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

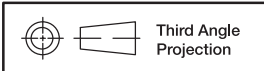
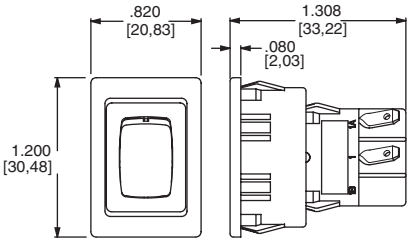
HOUSING STYLE/COLOR

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

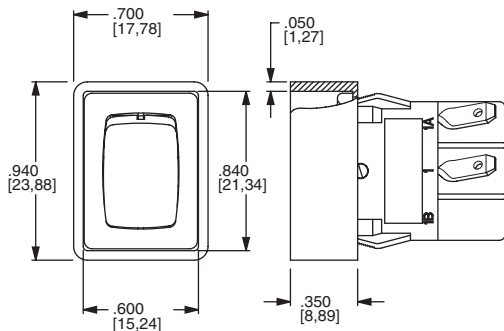


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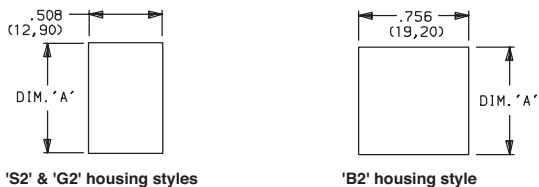
# DM Series Miniature 2 Pole Power Rocker Switches

## HOUSING STYLE/COLOR

### G2 ACTUATOR GUARD, BLACK



### PANEL MOUNTING



'S2' & 'G2' housing styles

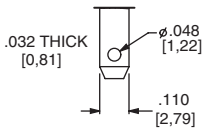
'B2' housing style

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



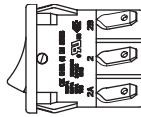
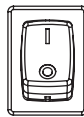
### D ON-OFF



### 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  |
|             |                               |             | 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           |

\* 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

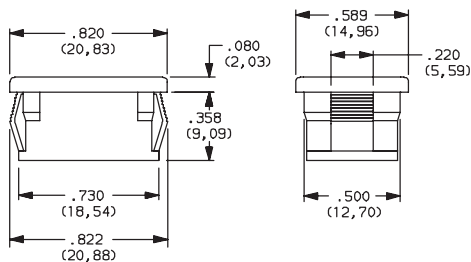


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# DM Series Miniature 2 Pole Power Rocker Switches

## AVAILABLE HARDWARE

Insert

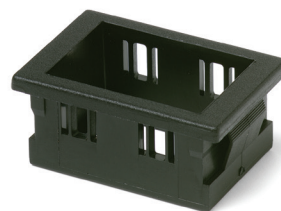


PART NO.

**057190200**

Material: Nylon 6/6  
Finish: Matte

Recessed Actuator Guard

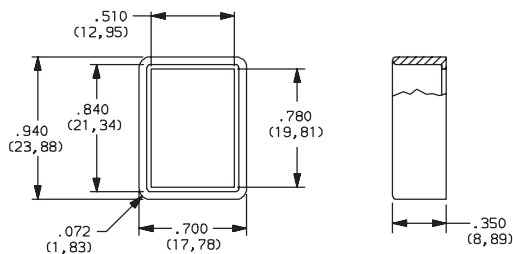


PART NO.

**599D02000**

Material: 6/6 Nylon  
Finish: Matte

Actuator Guard



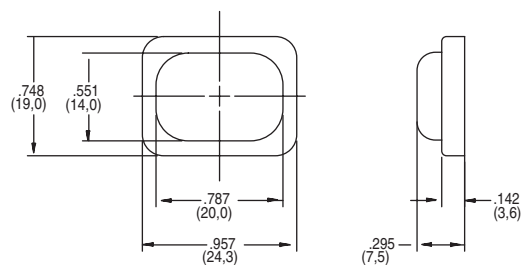
PART NO.

**104C22000**

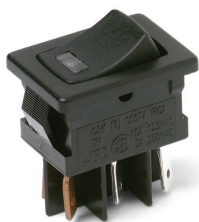
Material: PBT thermoplastic  
Finish: Matte

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



UL 61058-1

## 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

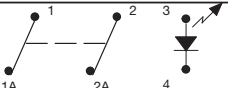
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-70 and G-73. For additional options not shown in catalog, consult Customer Service Center.

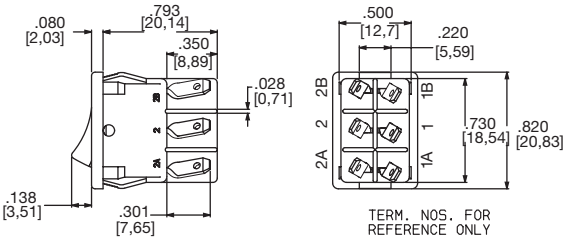
|                                                                                                                                                                          |                                                                           |                                                                               |                                                                                                               |                                                            |                                                        |                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <div>Switch Function</div> <div><b>DM14</b> SPST, 3 AMP</div> <div><b>DM24</b> DPST, 3 AMP</div> <div><b>DM54</b> SPST, 10 AMP</div> <div><b>DM64</b> DPST, 10 AMP</div> | <div>Actuator</div> <div><b>J7</b> Rocker with colorless LED window</div> | <div>Actuator Color</div> <div><b>2</b> Black</div> <div><b>1</b> White</div> | <div>Housing Style/Color</div> <div><b>S2</b> Snap-in, black</div> <div><b>G2</b> Actuator guard, black</div> | <div>Terminations</div> <div><b>05</b> Quick connect</div> | <div>Contact Material</div> <div><b>Q</b> Silver</div> | <div>LED Color</div> <div><b>3</b> Red</div> <div><b>4</b> Amber</div> <div><b>6</b> Green</div> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------|

# 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 (D M14 & DM54) OMIT TERM INALS 2 & 2A.

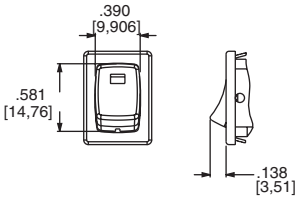
Part number shown: DM24J72S205Q3

\* RATINGS: see page G-69.



### ACTUATOR

**J7** ROCKER WITH COLORLESS LED WINDOW

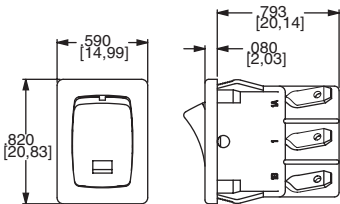


| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |

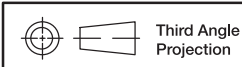
**NOTE:** Other colors available, consult Customer Service Center.

### 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



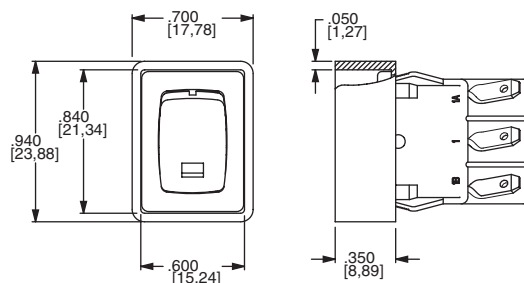
15 May 20



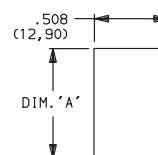
# DM Series Miniature Illuminated Power Rocker Switches

## HOUSING STYLE/COLOR

### G2 ACTUATOR GUARD, BLACK



### PANEL MOUNTING



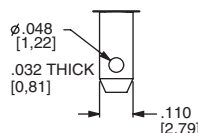
### 'S2' & 'G2' housing style

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<br>(0,76) (1,24) | 0.756<br>(19,20)                   | 0.764<br>(19,41)                        |
| .049-.079<br>(1,24) (2,01) | 0.764<br>(19,41)                   | 0.780<br>(19,81)                        |
| .079-.118<br>(2,01) (3,00) | .780<br>(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.

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

<sup>2</sup> 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

www.ckswitches.com

15 May 20

G-72

Rocker



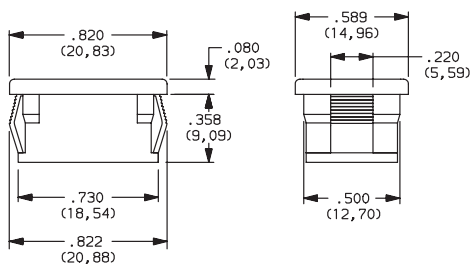
G

C&K

# DM Series Miniature Illuminated Power Rocker Switches

## AVAILABLE HARDWARE

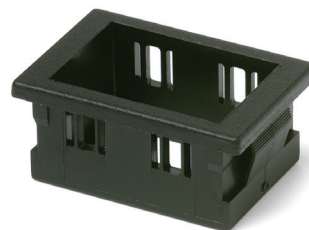
Blank Insert



PART NO.  
**057190200**

Material: Zinc nylon 6/6  
Finish: Matte

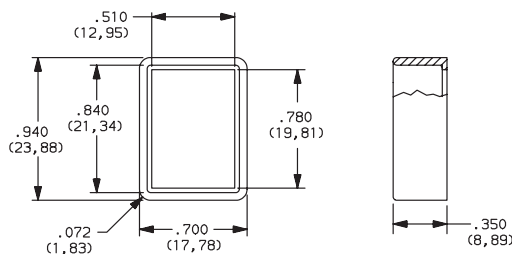
Recessed Bracket



PART NO.  
**599D02000**

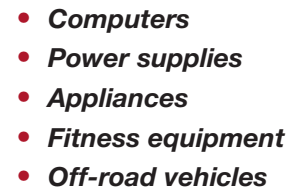
Material: 6/6 Nylon  
Finish: Matte

Actuator Guard



PART NO.  
**104C22000**

Material: PBT thermoplastic  
Finish: Matte

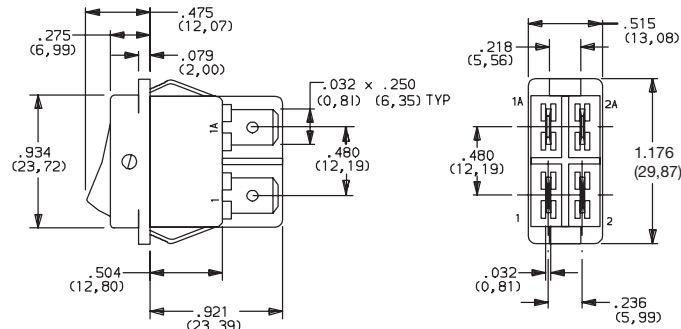


DF Series  
Power Rocker Switches

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<br>  |
| DP        | DF62      | OFF             | ON     | OPEN                | 1-1A, 2-2A | DPST<br>  |

Part Number shown DF62J12S215QA



Actuator shown in Pos. 1

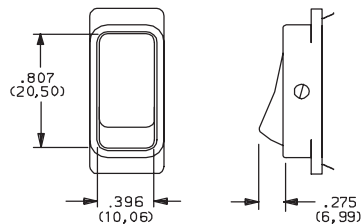
| NO. POLES | MODEL NO. | POS. 1 | POS. 2 | POS. 3 | POS. 1 | POS. 2   | POS. 3               | SCHEMATIC                              |
|-----------|-----------|--------|--------|--------|--------|----------|----------------------|----------------------------------------|
|           |           |        |        |        |        |          |                      |                                        |
|           |           | OFF    | ON     | ON     | OPEN   | 1 / 2-2A | 1 / 2-1A<br>1 / 2-2A |                                        |
| SP        | DF72      | OFF    | ON     | ON     | OPEN   | 1 / 2-2A | 1 / 2-1A<br>1 / 2-2A | POS. 1<br><br>POS. 2<br><br>POS. 3<br> |

All models

ACTUATOR

ACTUATOR COLOR

J1 ROCKER



| OPTION CODE | ACTUATOR COLOR |
|-------------|----------------|
| 2           | BLACK          |
| 1           | WHITE          |

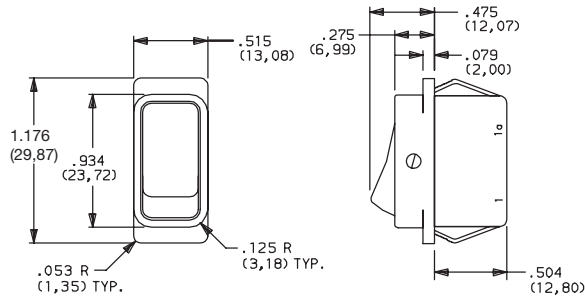
NOTE: Actuator finish: matte. Other colors available, consult Customer Service Center.



# DF Series Power Rocker Switches

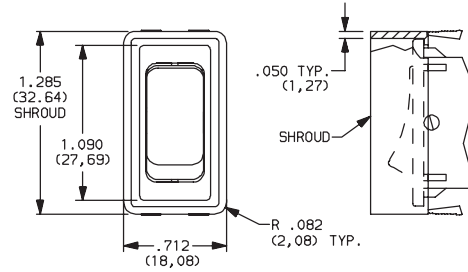
## HOUSING STYLE/COLOR

### S SUB-PANEL



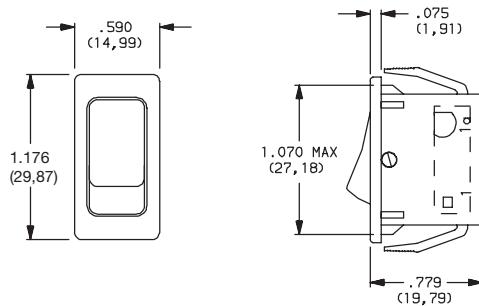
NOTE: DF52 & DF62 models only.

### G2 ACTUATOR GUARD



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

### P PANEL



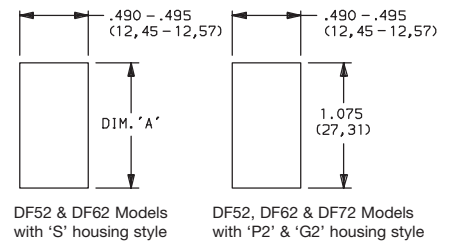
NOTE: Not available with 'A' termination.  
Available in black only.

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

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

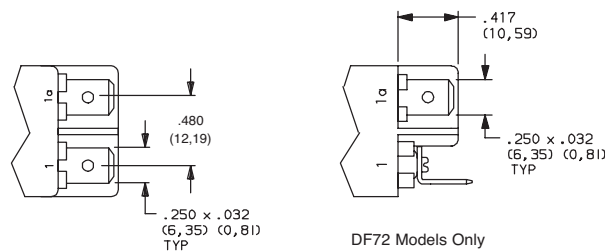
### PANEL MOUNTING

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

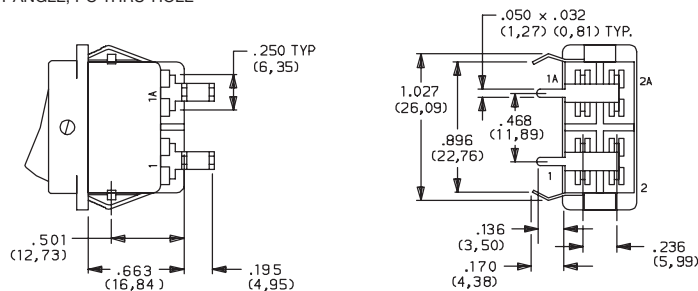


## TERMINATIONS

### 15 QUICK CONNECT



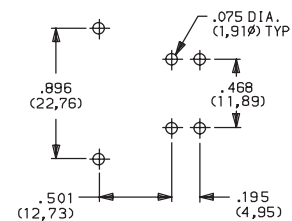
### A RIGHT ANGLE, PC THRU-HOLE



Actuator shown in Pos. 1

NOTE: DF52 and DF62 Models Only

### PC MOUNTING



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

Rocker



G

C&K

# DF Series Power Rocker Switches

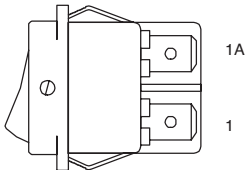
## ACTUATOR MARKINGS

**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 <sup>1,2</sup>         | 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.

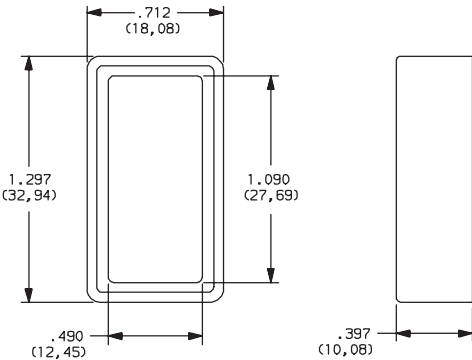
<sup>1</sup> CONTACTS: Fine silver, silver plated.

All models 

<sup>2</sup> 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



# 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<sub>2</sub>InO<sub>3</sub>.

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

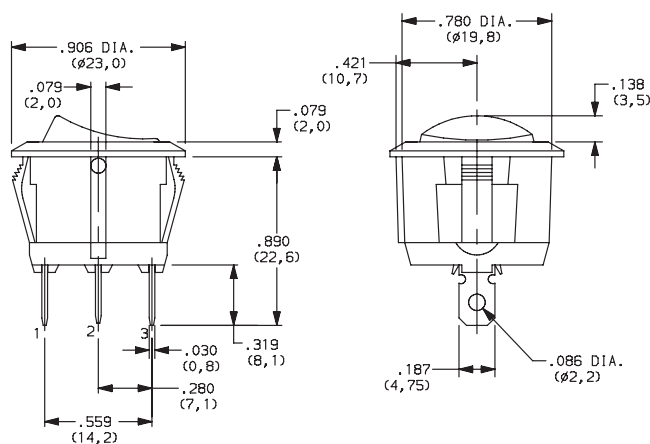
To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages G-78 through G-80. For additional options not shown in catalog, consult Customer Service Center.

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

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

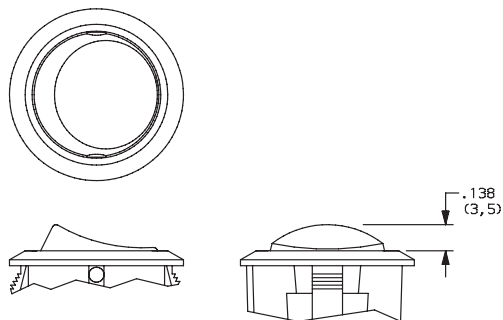
## CR Series Round Single Pole Specialty Rocker Switches

| 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        | CR101     | ON                                                                                | NONE                                                                              | ON                                                                                | 2-3                                                                               | N/A                                                                               | 2-1                                                                                 |                                                                                                                                          |
|           | CR102     | ON                                                                                | NONE                                                                              | OFF                                                                               |                                                                                   |                                                                                   |                                                                                     |   <p>OR</p> <p>For 7 &amp; 8 Illuminated Versions</p> |
|           |           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                       |



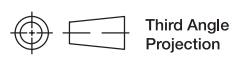
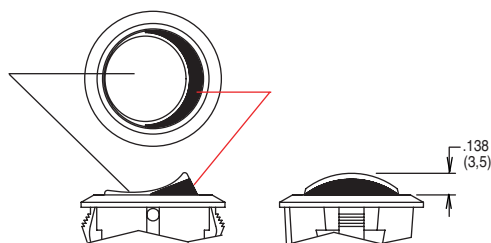
**J1** ROCKER

### J3 ILLUMINATED ROCKER



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

**J2** TWO-TONE ROCKER

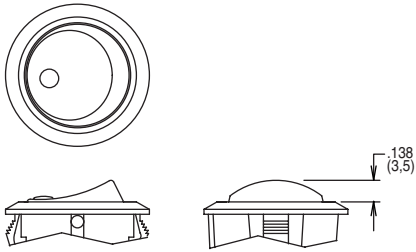


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# CR Series Round Single Pole Specialty Rocker Switches

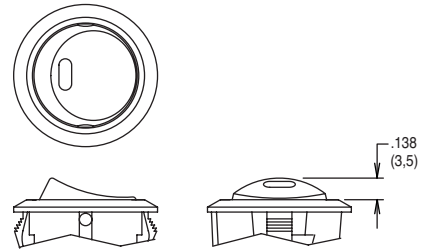
## ACTUATOR

### J4 CIRCLE, ILLUMINATED ROCKER



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

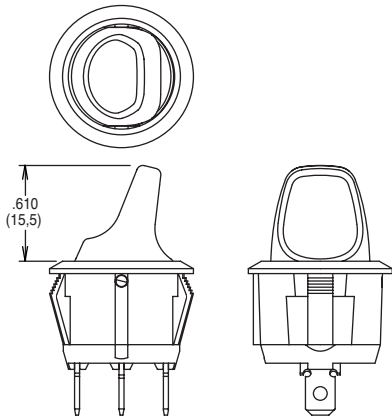
### J5 OVAL, ILLUMINATED ROCKER



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

### JN PADDLE, ROCKER

### JP PADDLE, ILLUMINATED ROCKER



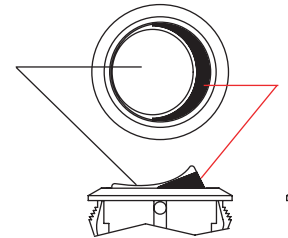
**NOTE:** JP actuator available with the combination of CR102 switch function and 7 & 8 lamp ratings only.

## ACTUATOR COLOR

| ACTUATOR                 | OPTION CODE | ACTUATOR COLOR     |
|--------------------------|-------------|--------------------|
| <b>J1</b>                | <b>2</b>    | BLACK              |
|                          | <b>1</b>    | WHITE              |
|                          | <b>3</b>    | RED                |
| <b>J3, J4<br/>J5, JP</b> | <b>R</b>    | RED, ILLUMINATED   |
|                          | <b>A</b>    | AMBER, ILLUMINATED |
|                          | <b>G</b>    | GREEN, ILLUMINATED |

| <b>J2</b> | OPTION CODE | ACTUATOR COLOR |        |
|-----------|-------------|----------------|--------|
|           |             | TOP            | BOTTOM |
|           | <b>1</b>    | WHITE          | RED    |
|           | <b>2</b>    | WHITE          | BLACK  |
|           | <b>3</b>    | RED            | WHITE  |
|           | <b>4</b>    | BLACK          | WHITE  |
|           | <b>5</b>    | BLACK          | RED    |

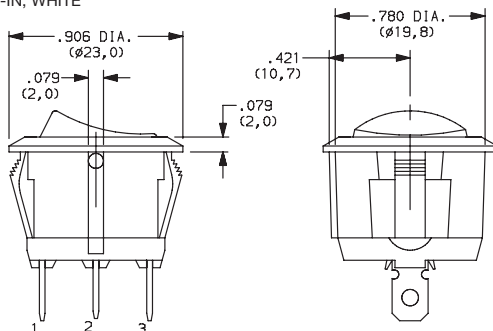
J2 actuator only



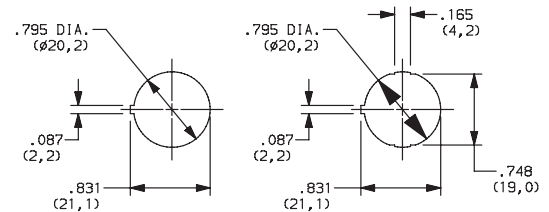
## MOUNTING STYLE/COLOR

### 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

Rocker



G

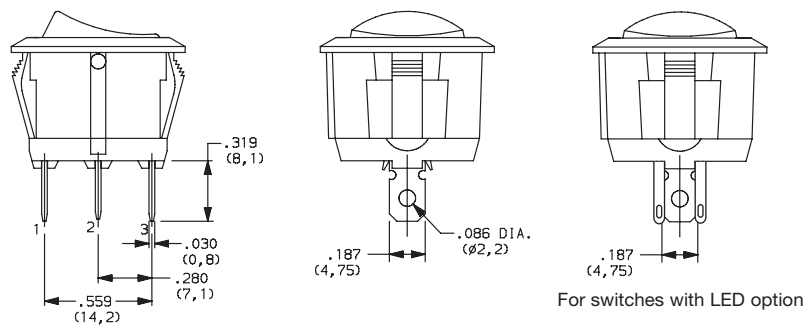
**C&K**

## CR Series Round Single Pole Specialty Rocker Switches

```

graph LR
    n1[ ] --- n2[ ]
    n2 --- n3[ ]
    n3 --- n4[ ]
    n4 --- n5[ ]
    n5 --- n6[ ]
    n6 --- n7[ ]
    n7 --- null(( ))
    style n1 fill:#000,stroke:#000
    style n2 fill:#000,stroke:#000
    style n3 fill:#000,stroke:#000
    style n4 fill:#000,stroke:#000
    style n5 fill:#000,stroke:#000
    style n6 fill:#fff,stroke:#000
    style n7 fill:#fff,stroke:#000
    style null fill:none,stroke:none
  
```

**15** .187" QUICK CONNECT



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

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

A horizontal sequence of seven rectangular blocks connected by lines, with an empty box at the end.

**(NONE)** NO LAMP

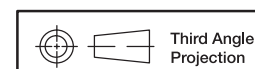
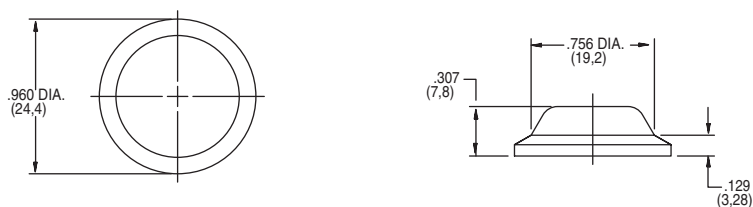
### 6 LED RATING @ 10 mA $V_f=1.85V$

**7** 125 VAC 33k $\Omega$  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  $\Omega$  min.  
 INSULATION RESISTANCE: 100M  $\Omega$  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

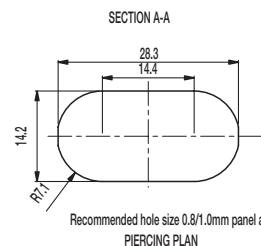
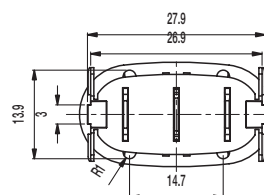
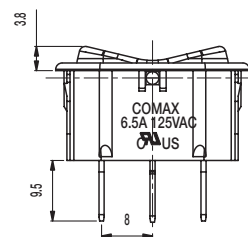
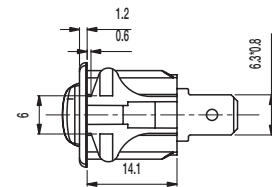
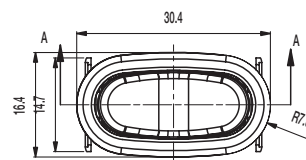
HOUSING: PA (UL 94V-2).  
 KNOB: PA (UL 94V-2).  
 CONTACTS: Silver plated.

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

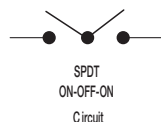
## Environmental

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       |



Recommended hole size 0.8/1.0mm panel assembly.  
 PIERCING PLAN



# 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.

|                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Switch Function</div> <div><div>CG101</div> SPDT On-None-On</div> <div><div>CG102</div> SPST On-None-Off</div> <div><div>CG103</div> SPDT On-Off-On</div> <div><div>CG105</div> SPDT Mom-Off-Mom</div> <div><div>CG12 *</div> SPST On-None-Off</div> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

\* CG12 — for switches with both marking and illumination

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

Rocker



# CG Series Single Pole Power Rocker Switches

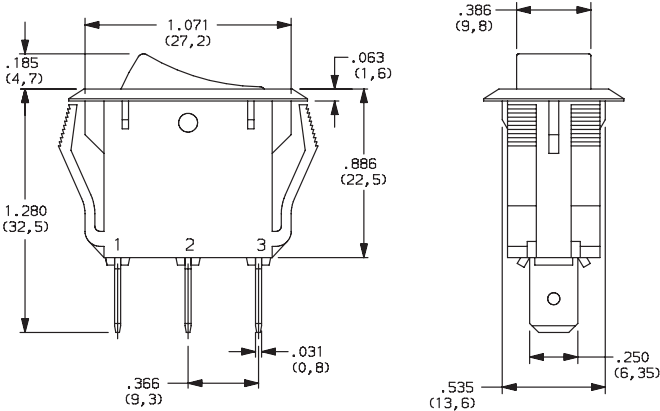
## SWITCH FUNCTION



| 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        | <b>CG101</b>  | ON                           | NONE   | ON     | 1-2                          |        | 2-3    |                                       |
|           | <b>CG102</b>  | ON                           | NONE   | OFF    | 1-2                          | N/A    | OPEN   | <br>OR<br><br>For Illuminated Version |
|           | <b>CG103</b>  | ON                           | OFF    | ON     | 1-2                          | OPEN   | 2-3    |                                       |
|           | <b>CG105</b>  | MOM                          | OFF    | MOM    | 1-2                          | OPEN   | 2-3    |                                       |
|           | <b>CG12 *</b> | ON                           | NONE   | OFF    | 1-2                          | N/A    | OPEN   |                                       |

\* CG12 - for switches with both marking and illumination

Shown in Pos. 1



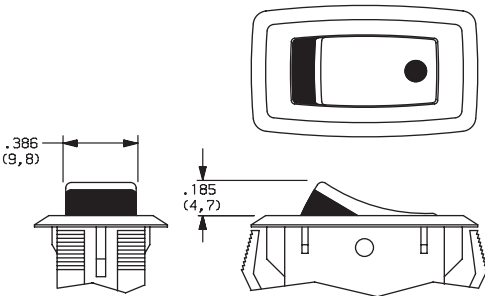
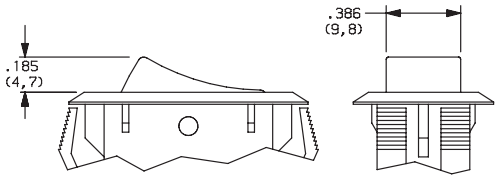
## ACTUATOR



**J1** ROCKER

**J3** ILLUMINATED ROCKER

**J2** TWO-TONE ROCKER



**NOTE:** J3 actuator available with CG102 switch function only.

**NOTE:** Available with CG102 switch function only.



Third Angle  
Projection

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

**C&K**

Rocker



G

# CG Series

## Single Pole Power Rocker Switches

### ACTUATOR COLOR

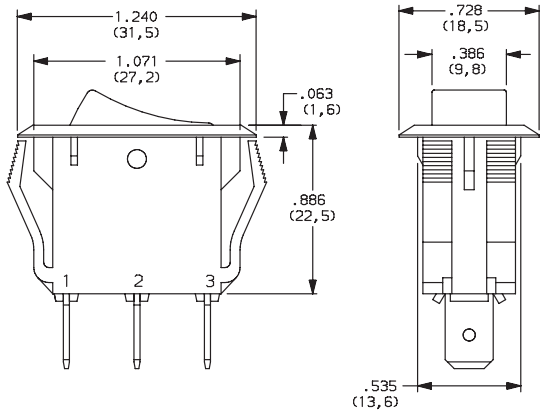
| ACTUATOR | OPTION CODE | ACTUATOR COLOR     |
|----------|-------------|--------------------|
| J1       | 2           | BLACK              |
|          | 1           | WHITE              |
|          | 3           | RED                |
| J3       | R           | RED, ILLUMINATED   |
|          | 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

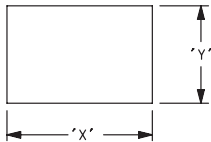
### MOUNTING STYLE/COLOR

- S2 SNAP-IN, BLACK
- S1 SNAP-IN, WHITE



Shown in Pos. 1

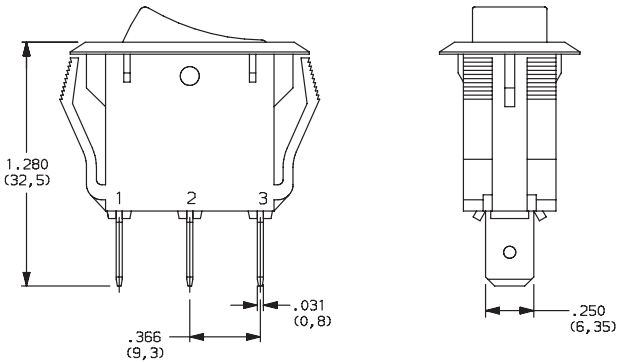
#### PANEL MOUNTING



| 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



Third Angle  
Projection

# CG Series Single Pole Power Rocker Switches

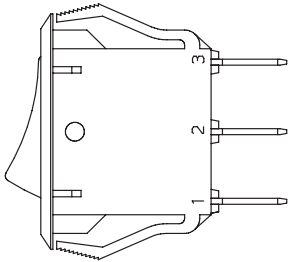
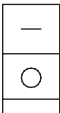
## ACTUATOR MARKING

**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 |                                                           |
|-------------|-------------------------------|---------|-----------------------------------------------------------|
| <b>QF</b>   | SILVER                        | POWER   | 16 AMPS @ 125 VAC; 10 AMPS @ 250 VAC<br>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



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



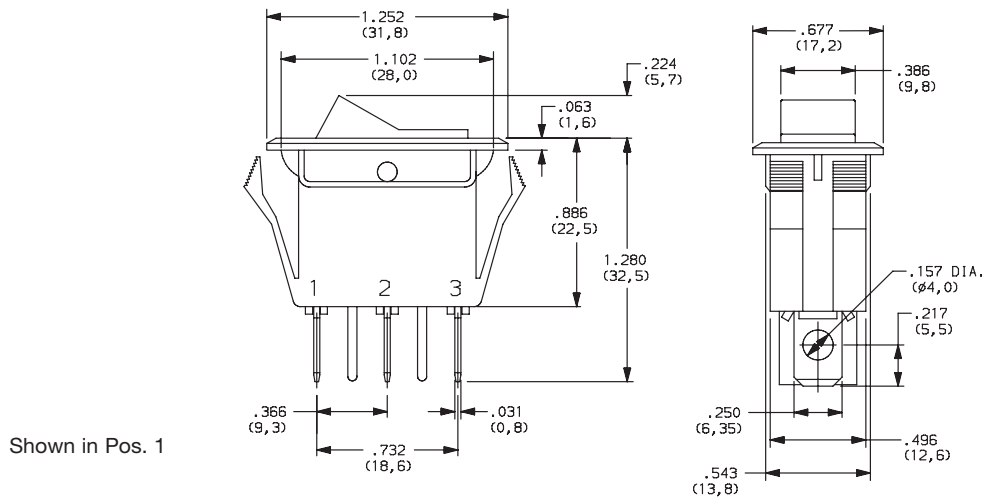
# CL Series Single Pole Power Rocker Switches

## SWITCH FUNCTION

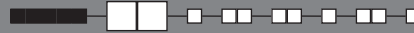


| NO.<br>POLES | MODEL NO. | SWITCH FUNCTION                                                                   |                                                                                   |                                                                                   | CONNECTED TERMINALS                                                               |                                                                                    |                                                                                     | 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                                                                                |  OR  |
|              | CL12 *    | ON                                                                                | NONE                                                                              | OFF                                                                               |                                                                                   |                                                                                    | <p>For Illuminated Version</p>                                                      |                                                                                                                                                                            |

\* CL12 - for switches with both marking and illumination

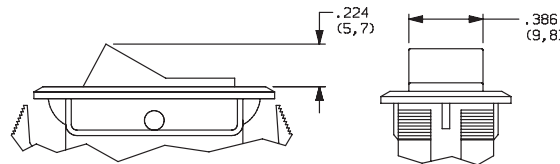


## ACTUATOR



**J7** ROCKER

**J9** ILLUMINATED ROCKER

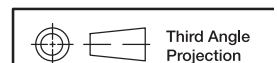


**NOTE:** J9 actuator available with CL102 & CL12 switch function only.

## ACTUATOR COLOR



| OPTION CODE | ACTUATOR COLOR     |
|-------------|--------------------|
| <b>2</b>    | BLACK              |
| <b>1</b>    | WHITE              |
| <b>3</b>    | RED                |
| <b>R</b>    | RED, ILLUMINATED   |
| <b>A</b>    | AMBER, ILLUMINATED |
| <b>G</b>    | GREEN, ILLUMINATED |



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

[www.ckswitches.com](http://www.ckswitches.com)

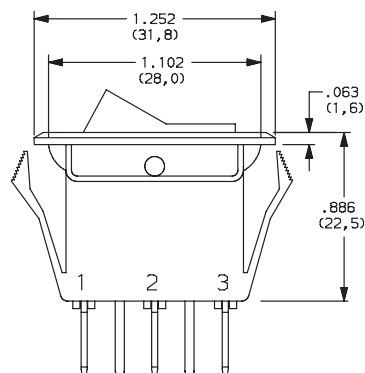
# CL Series Single Pole Power Rocker Switches

## MOUNTING STYLE/COLOR

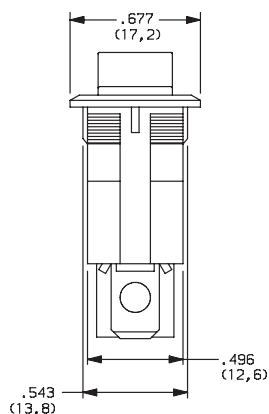


**S2** SNAP-IN, BLACK

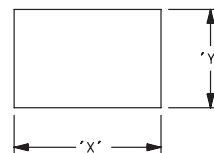
**S1** SNAP-IN, WHITE



Shown in Pos. 1



### PANEL MOUNTING

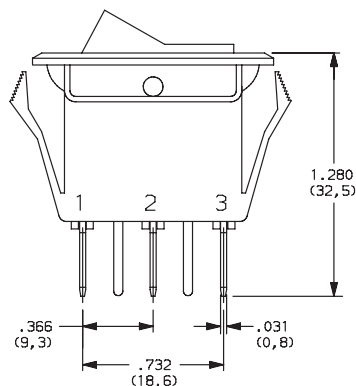


| PANEL THICKNESS         | "X"                   | "Y"                   |
|-------------------------|-----------------------|-----------------------|
| 0.030-0.049 (0,75-1,25) | 1.126-.004 (28,6-0,1) | 0.551+.004 (14,0+0,1) |
| 0.049-0.079 (1,25-2,0)  | 1.134-.004 (28,8-0,1) | 0.551+.004 (14,0+0,1)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

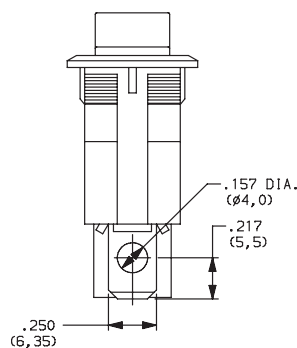
## TERMINATION



**05** .250" QUICK CONNECT



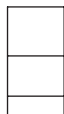
Shown in Pos. 1



## ACTUATOR MARKING



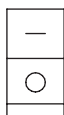
**NONE** NO MARKING



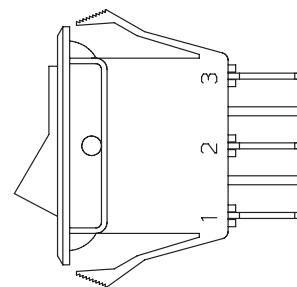
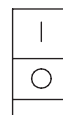
**D** ON-OFF



**H** O I

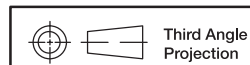


**P** O -



**NOTE:** Orientation of actuator marking and terminals.

Shown in Pos. 1



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

**C&K**

# CL Series Single Pole Power Rocker Switches

## CONTACT MATERIAL



| OPTION<br>CODE | CONTACT AND<br>TERMINAL MATERIAL | RATINGS |                                                         |
|----------------|----------------------------------|---------|---------------------------------------------------------|
|                |                                  |         |                                                         |
| QA             | SILVER                           | POWER   | 16 AMPS @ 125 VAC; 1/3 HP;<br>10 AMPS @ 250 VAC, 1/2 HP |

\* 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.

Rocker



G



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

## 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:  $10^8 \Omega \text{ min.}$

**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.

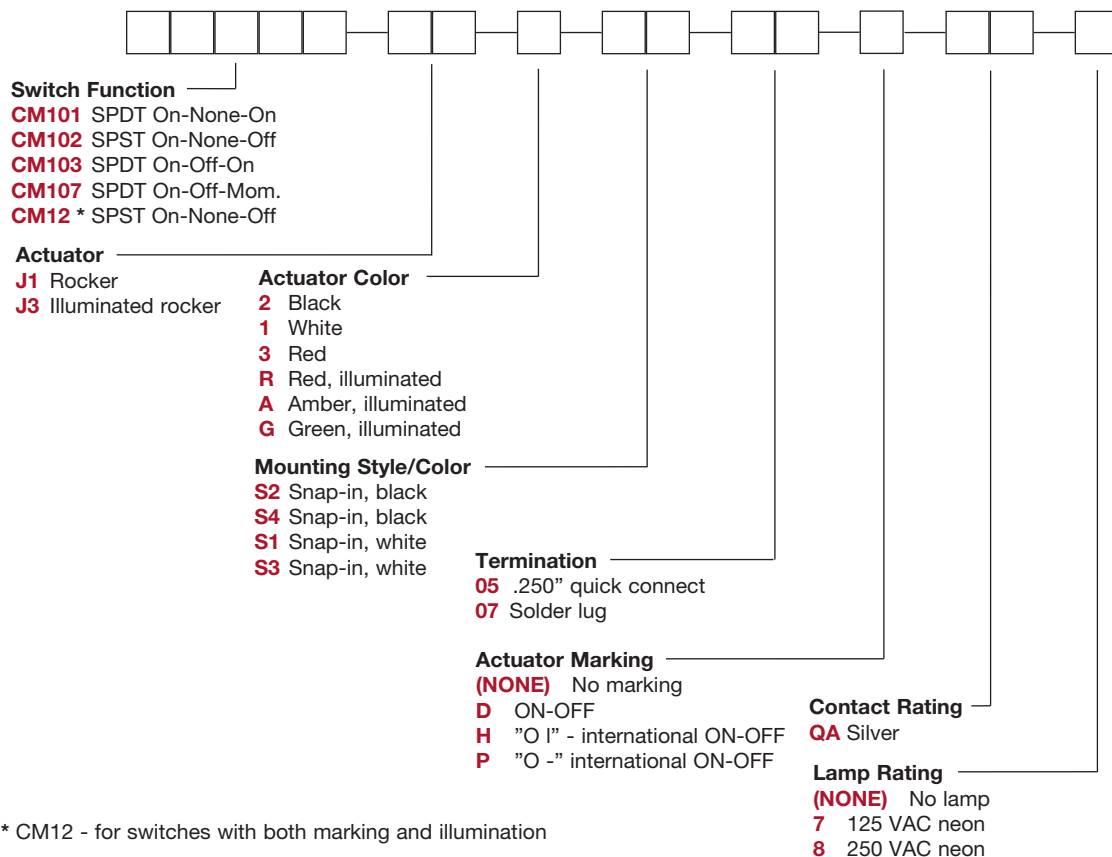
END CONTACTS: Silver plated.

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.



\* CM12 - for switches with both marking and illumination

# Rocker



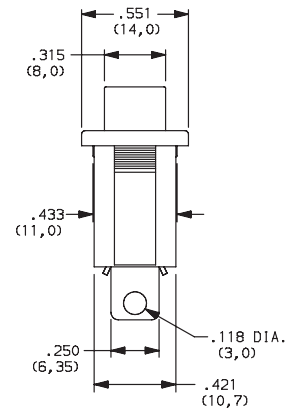
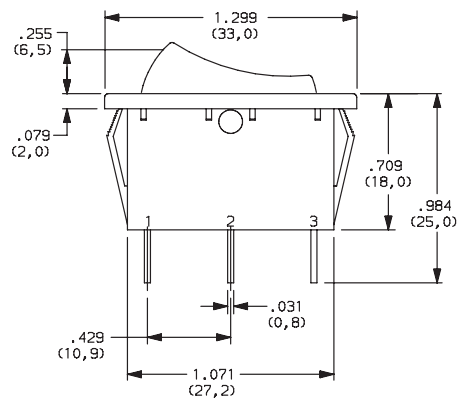
# CM Series Single Pole Power Rocker Switches

## SWITCH FUNCTION

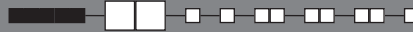


| NO. POLES | MODEL NO.     | SWITCH FUNCTION              |        |        | CONNECTED TERMINALS          |        |        | SCHEMATIC |
|-----------|---------------|------------------------------|--------|--------|------------------------------|--------|--------|-----------|
|           |       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

\* CM12 - for switches with both marking and illumination

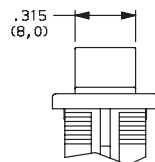
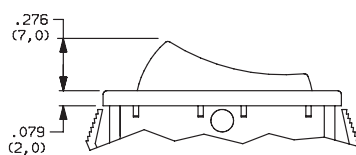


## ACTUATOR



**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](http://www.ckswitches.com)

Rocker



G

# CM Series Single Pole Power Rocker Switches

## ACTUATOR COLOR



| OPTION CODE | ACTUATOR COLOR     |
|-------------|--------------------|
| <b>2</b>    | BLACK              |
| <b>1</b>    | WHITE              |
| <b>3</b>    | RED                |
| <b>R</b>    | RED, ILLUMINATED   |
| <b>A</b>    | AMBER, ILLUMINATED |
| <b>G</b>    | GREEN, ILLUMINATED |

## MOUNTING STYLE/COLOR

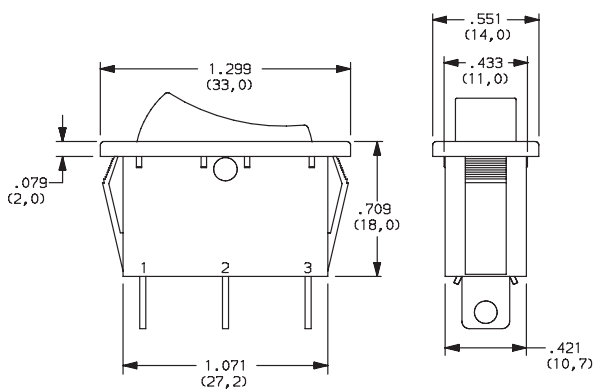


**S2** SNAP-IN, BLACK

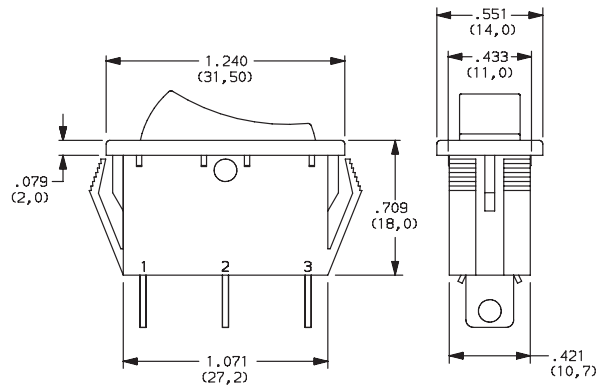
**S1** SNAP-IN, WHITE

**S4** SNAP-IN, BLACK (SHORT FRAME)

**S3** SNAP-IN, WHITE

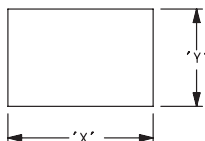


Shown in Pos. 1



Shown in Pos. 1

### PANEL MOUNTING



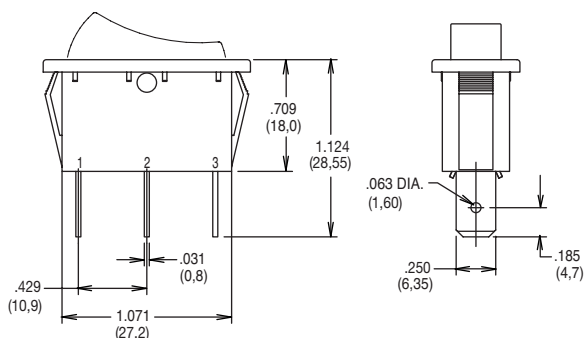
| PANEL THICKNESS         | "X"                   | "Y"                   |
|-------------------------|-----------------------|-----------------------|
| 0.030-0.049 (0,75-1,25) | 1.189-.004 (30,2-0,1) | 0.441+.004 (11,2+0,1) |
| 0.049-0.079 (1,25-2,0)  | 1.197-.004 (30,4-0,1) | 0.441+.004 (11,2+0,1)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

## TERMINATION

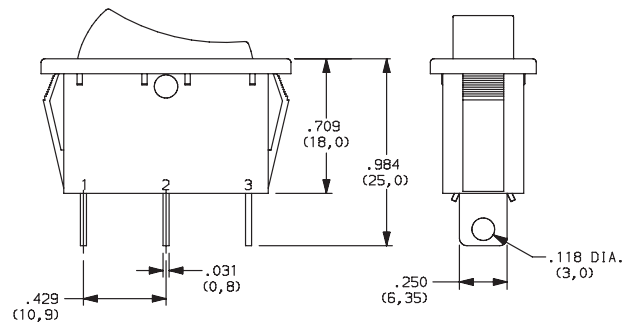


**05** .250 QUICK CONNECT

**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



16 May 18



# CM Series Single Pole Power Rocker Switches

## ACTUATOR MARKING



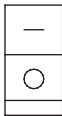
**NONE** NO MARKING



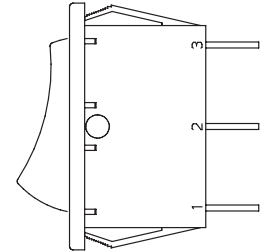
**D** ON-OFF



**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 |                           |
|-------------|-------------------------------|---------|---------------------------|
|             |                               | POWER   |                           |
| <b>QA</b>   | SILVER                        |         | 16 AMPS @ 125 VAC; 1/8 HP |
|             |                               |         | 10 AMPS @ 250 VAC, 1/3 HP |

\* 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**

16 May 18

G-94



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

[www.ckswitches.com](http://www.ckswitches.com)

## 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:  $10^8 \Omega \text{ min.}$

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 AgSuO<sub>2</sub>InO<sub>3</sub>.

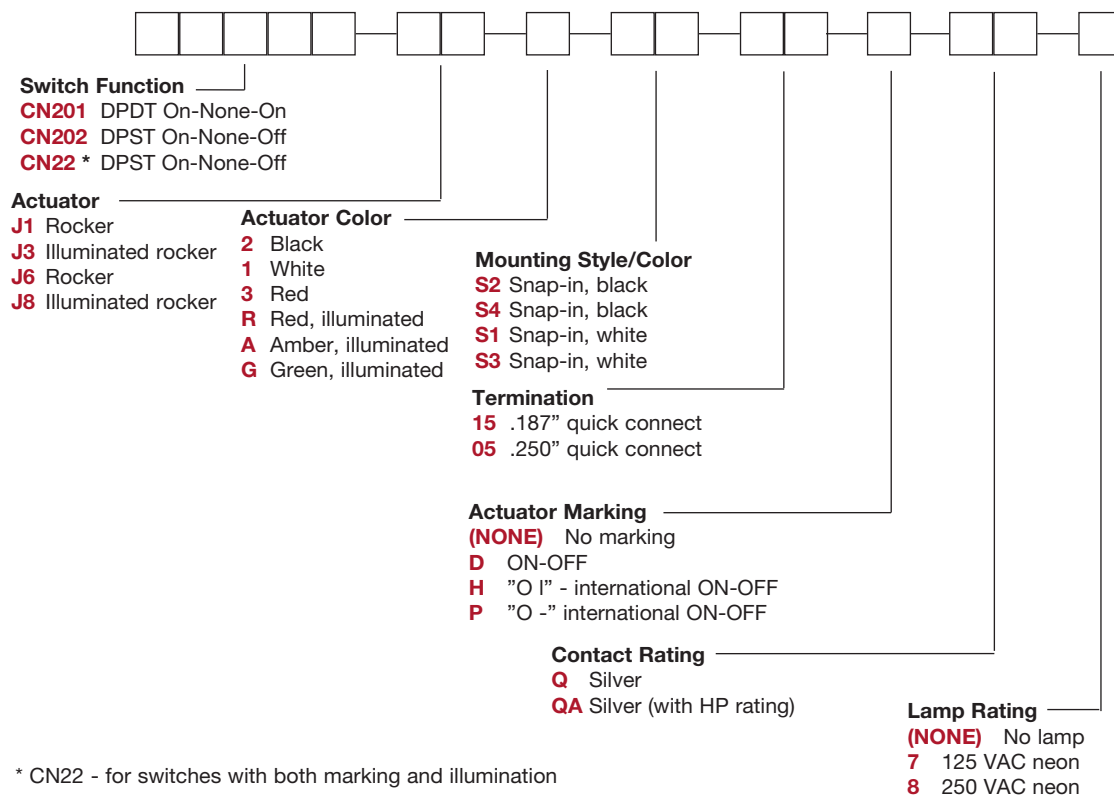
ALL TERMINALS: Silver plated, copper alloy.

**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.



# Rocker

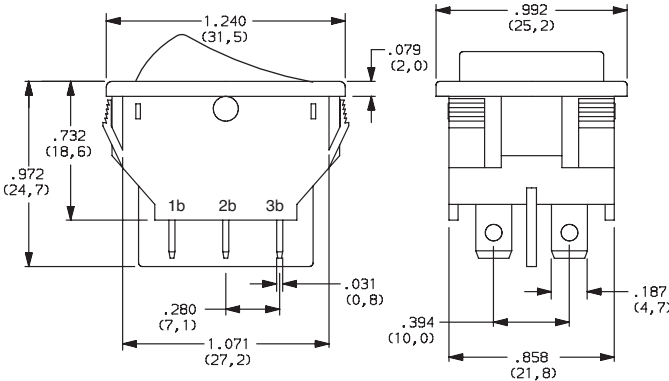


# CN Series Double Pole Power Rocker Switches

## 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<br>4-5                   | N/A    | 2-3<br>6-5 |                             |
|           | CN202     | ON                           | NONE   | OFF    |                              |        | OPEN       |                             |
|           | CN22 *    | ON                           | NONE   | OFF    |                              |        |            | <br>For Illuminated Version |

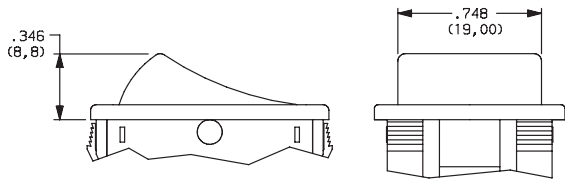
\* CN22 - for switches with both marking and illumination



Shown in Pos. 1

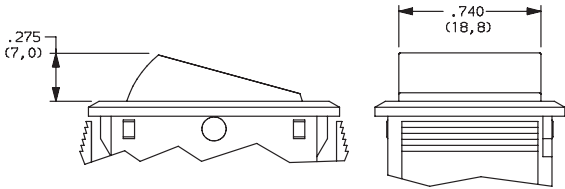
## ACTUATOR

- 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



G



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

# CN Series Double Pole Power Rocker Switches

## ACTUATOR COLOR

| OPTION CODE | ACTUATOR COLOR     |
|-------------|--------------------|
| <b>2</b>    | BLACK              |
| <b>1</b>    | WHITE              |
| <b>3</b>    | RED                |
| <b>R</b>    | RED, ILLUMINATED   |
| <b>A</b>    | AMBER, ILLUMINATED |
| <b>G</b>    | GREEN, ILLUMINATED |

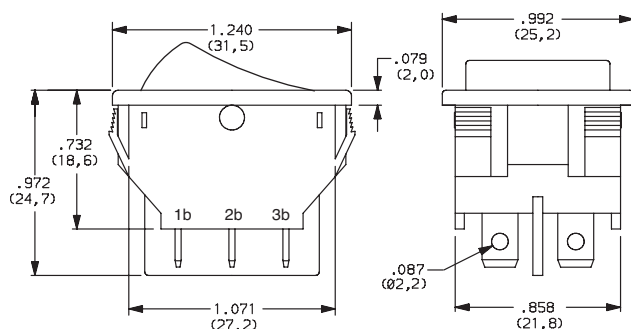
## MOUNTING STYLE/COLOR

**S2** SNAP-IN, BLACK

**S1** SNAP-IN, WHITE

**S4** SNAP-IN, BLACK

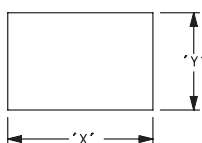
**S3** SNAP-IN, WHITE



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

Shown in Pos. 1

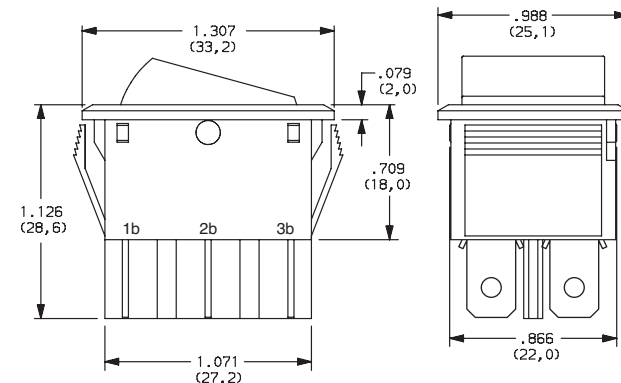
### PANEL MOUNTING



| 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) |

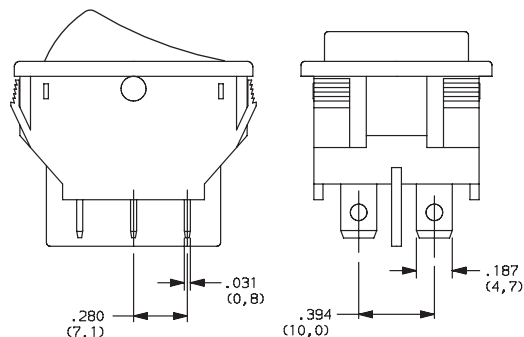
**NOTE:** Available with 05 termination and QA contact rating only.

Shown in Pos. 1



## TERMINATION

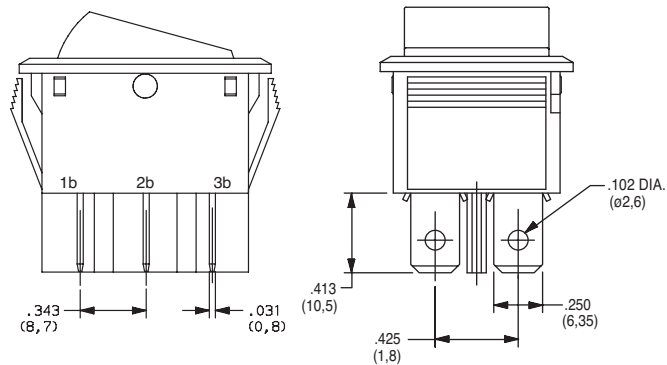
**15** .187" QUICK CONNECT



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

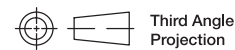
Shown in Pos. 1

**05** .250" QUICK CONNECT



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

Shown in Pos. 1



Third Angle Projection

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

**C&K**

# CN Series

## Double Pole Power Rocker Switches

### ACTUATOR MARKING

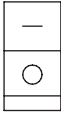
**NONE** NO MARKING



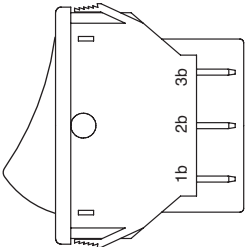
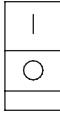
**D** ON-OFF



**H** O I



**P** O -



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

### CONTACT MATERIAL

| OPTION CODE | CONTACT AND TERMINAL MATERIAL | RATINGS |                                                                        |
|-------------|-------------------------------|---------|------------------------------------------------------------------------|
|             |                               |         |                                                                        |
| <b>Q</b>    | SILVER                        | POWER   | 16A @ 125C 1/3 HP @ 125 V AC<br>10A @ 250 V AC 1/2HP @ 250 V AC        |
| <b>QA</b>   |                               |         | 16A @ 125 VAC, 1/8 HP @ 125 V AC;<br>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 33kΩ NEON

**8** 250 VAC 150kΩ NEON

**NOTE:** Lamp rating for J3 & J8 actuator options.



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

Rocker



G



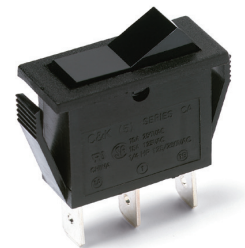
# CA Series Power Rocker Switches

## 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.

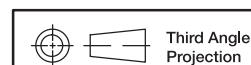
CONTACT SPRING: Music wire.

**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.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--|
| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> |                                                                                                       |  |
| <b>Switch Function</b><br><b>CA01</b> SPDT, On-On<br><b>CA02</b> SPST, On-Off<br><b>CA21</b> DPDT, On-On<br><b>CA22</b> DPST, On-Off                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Actuator</b><br><b>J1</b> Rocker with gloss finish<br><b>J7</b> Curved rocker with matte finish    |  |
| <b>Actuator Color</b><br><b>2</b> Black<br><b>1</b> White<br><b>3</b> Red<br><b>6</b> Green                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Housing Color</b><br><b>2</b> Black                                                                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Terminations</b><br><b>07</b> Quick connect                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Actuator Markings</b><br><b>NONE</b> No marking<br><b>D</b> ON-OFF<br><b>H</b> O  <br><b>P</b> O - |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>Contact Material</b><br><b>Q</b> Silver                                                            |  |



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



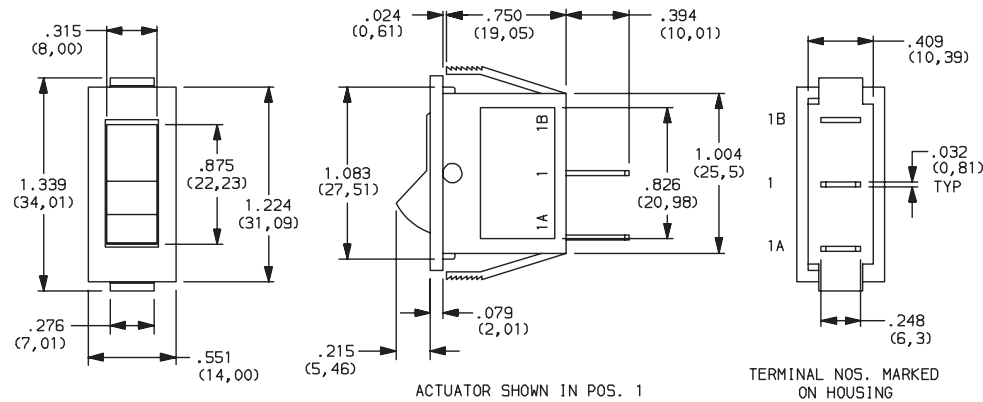
# CA Series Power Rocker Switches

## SWITCH FUNCTION

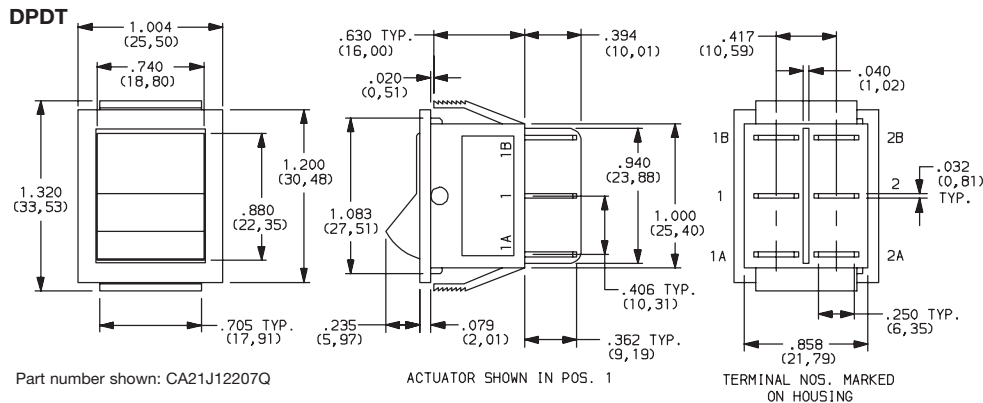


| NO. POLES | MODEL NO. | SWITCH FUNCTION |        | CONNECTED TERMINALS |        | SCHEMATIC |
|-----------|-----------|-----------------|--------|---------------------|--------|-----------|
|           |           | POS. 1          | POS. 2 | POS. 1              | POS. 2 |           |
| SP        | 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  with all options.

Rocker



G

**C&K**



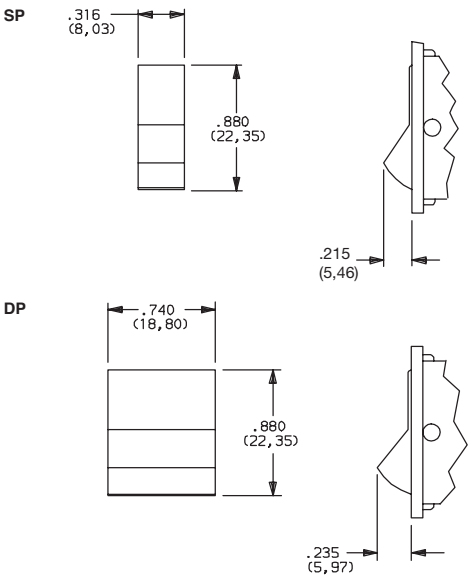
Third Angle  
Projection

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

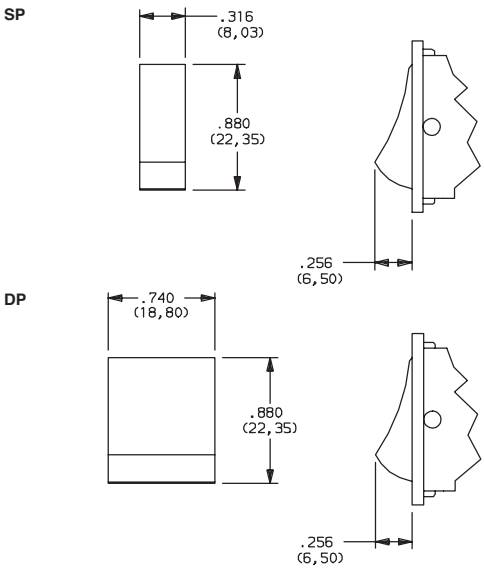
# CA Series Power Rocker Switches

## 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.

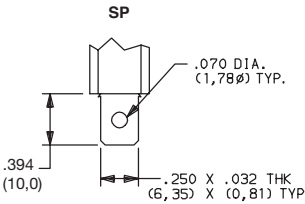
## HOUSING COLOR

| OPTION CODE | HOUSING COLOR |
|-------------|---------------|
| 2           | BLACK         |

**NOTE:** Housing frame finish: matte.

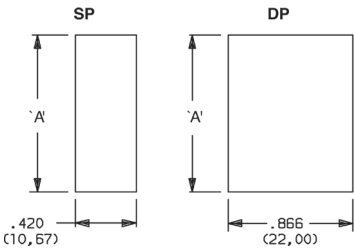
TERMINATIONS

07 QUICK CONNECT



PANEL MOUNTING

J1, & J7 only



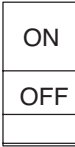
| PANEL THICKNESS            | DIM 'A'          |
|----------------------------|------------------|
| .059-.078<br>(1,50) (2,00) | 1.102<br>(28,00) |
| .078-.118<br>(2,00) (3,00) | 1.110<br>(28,20) |
| .118-.177<br>(3,00) (4,50) | 1.126<br>(28,60) |

ACTUATOR MARKINGS

NONE NO MARKING



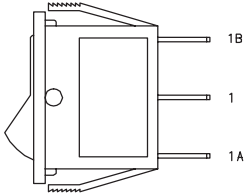
D ON-OFF



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 <sup>1</sup>           | POWER   | 10 AMPS @ 250 VAC<br>15 AMPS @ 125 VAC<br>1/4 HP 125/250 VAC |  |

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

<sup>1</sup> CONTACTS: Coin silver, silver plated.  
TERMINALS: Copper, silver plated.

All models with all options.

Rocker

G

C&K



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

www.ckswitches.com

## 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:  $10^9 \Omega \text{ min.}$

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

## Materials

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

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

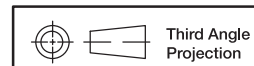
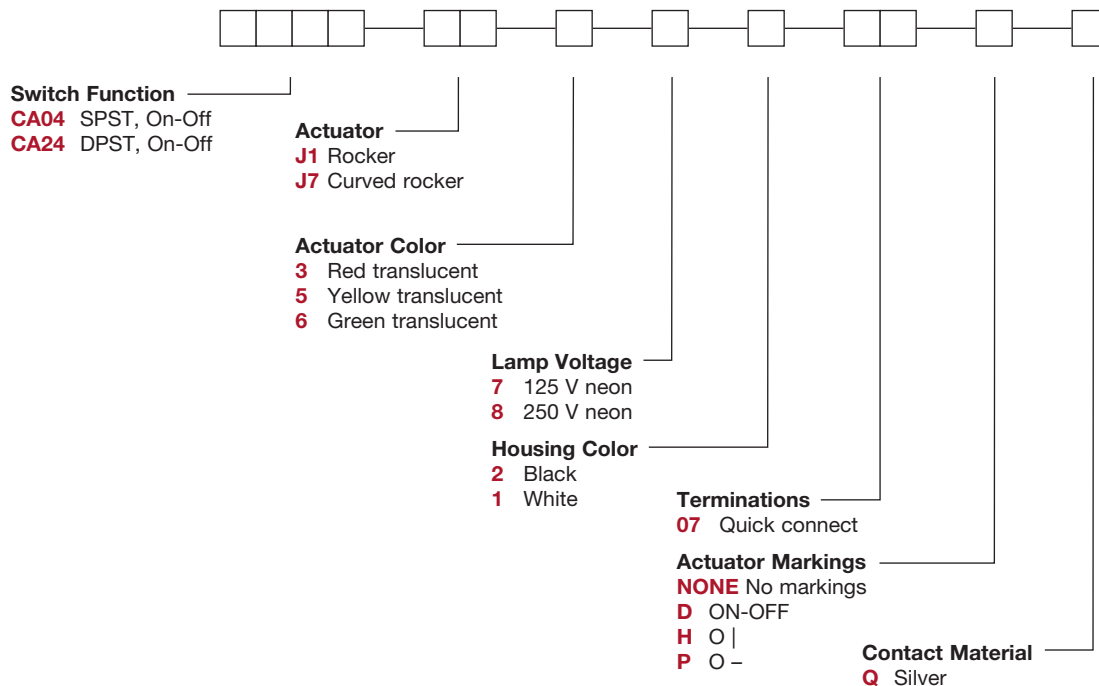
CONTACTS: Coin silver, silver plated.

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.

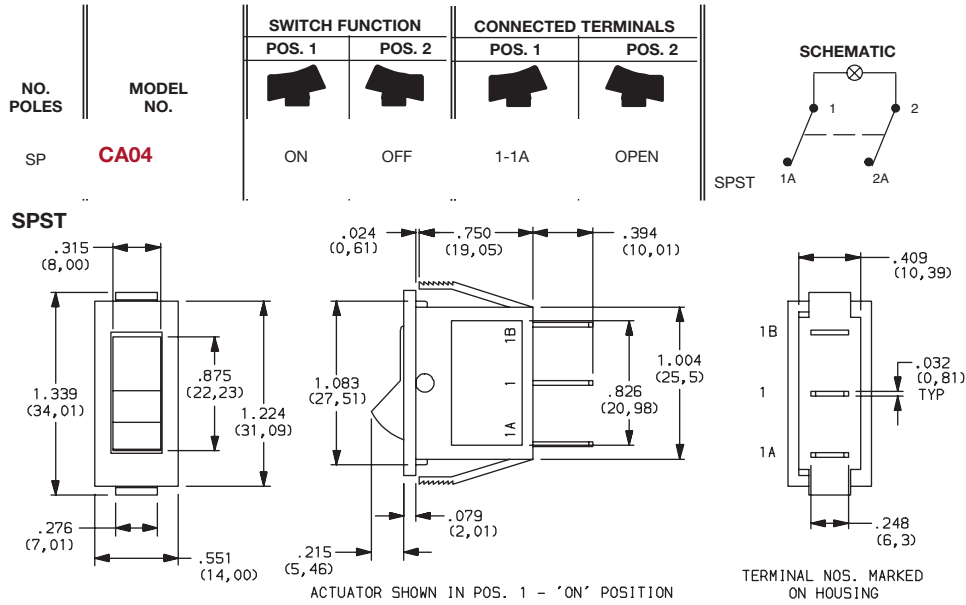


Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change



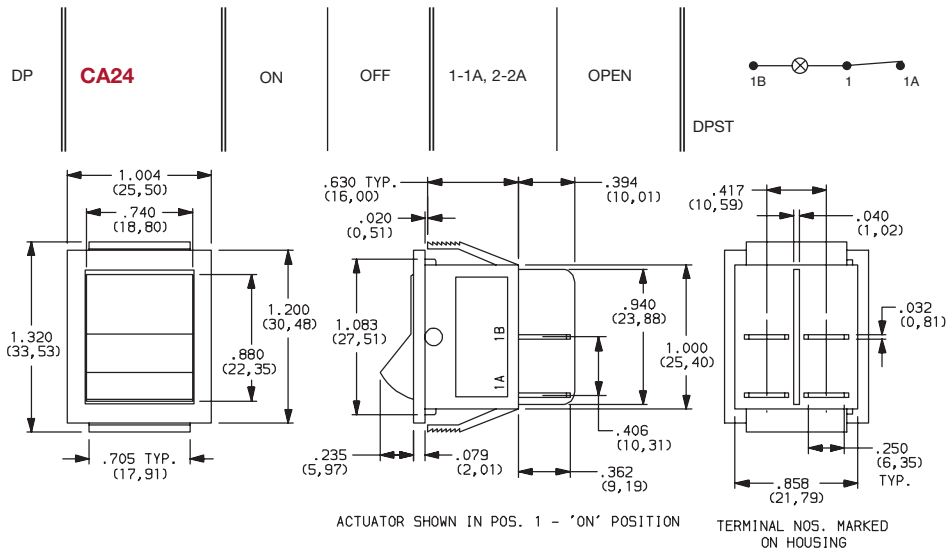
# CA Series Illuminated Power Rocker Switches

## SWITCH FUNCTION



Part number shown: CA04J137207Q

## DPST



Part number shown: CA24J137207Q

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

All models with all options.

Rocker



G

**C&K**



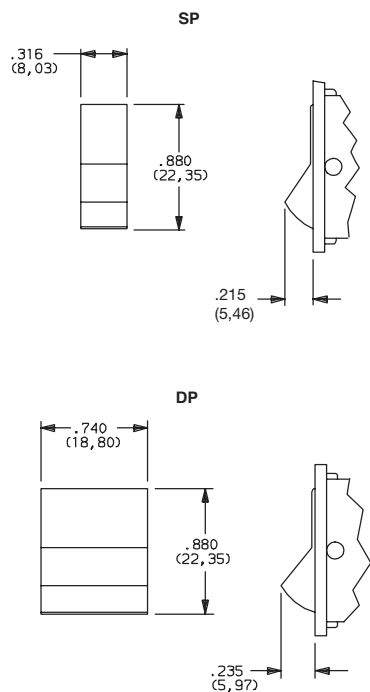
Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

# CA Series Illuminated Power Rocker Switches

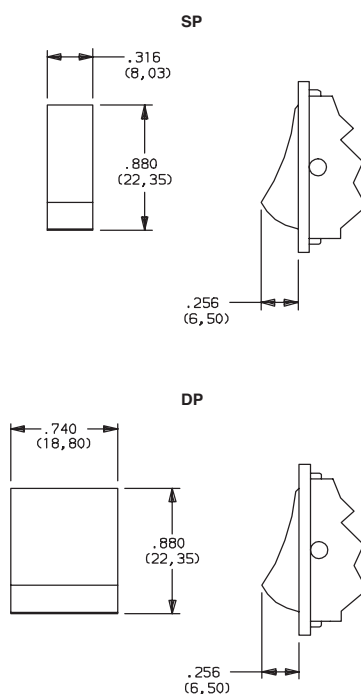
## ACTUATOR



### 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



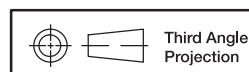
- 7 125 V NEON
- 8 250 V NEON

## HOUSING COLOR



| OPTION CODE | HOUSING COLOR |
|-------------|---------------|
| 2           | BLACK         |
| 1           | WHITE         |

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



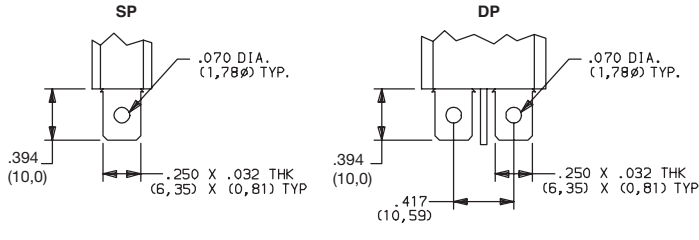
Third Angle  
Projection

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

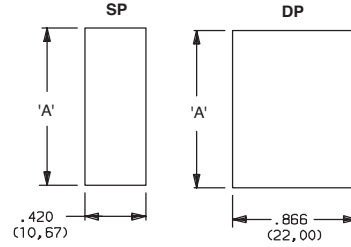
# CA Series Illuminated Power Rocker Switches

## TERMINATIONS

### 07 QUICK CONNECT



### PANEL MOUNTING



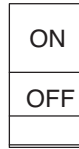
| PANEL THICKNESS            | DIM 'A'          |
|----------------------------|------------------|
| .059-.078<br>(1,50) (2,00) | 1.102<br>(28,00) |
| .078-.118<br>(2,00) (3,00) | 1.110<br>(28,20) |
| .118-.177<br>(3,00) (4,50) | 1.126<br>(28,60) |

## ACTUATOR MARKINGS

### NONE NO MARKING



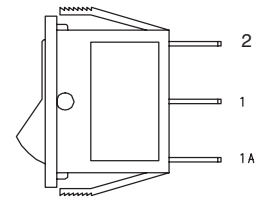
### D ON-OFF



### H O I



### P O -



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.

**NOTE:** Orientation of actuator markings and terminals

## CONTACT MATERIAL

| OPTION CODE | CONTACT AND TERMINAL MATERIAL | RATINGS |                                                              |                   |
|-------------|-------------------------------|---------|--------------------------------------------------------------|-------------------|
| <b>Q</b>    | SILVER <sup>1</sup>           | POWER   | 10 AMPS @ 250 VAC<br>15 AMPS @ 125 VAC<br>1/4 HP 125/250 VAC | <b>C&amp;K</b> US |

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

<sup>1</sup> CONTACTS: Coin silver, silver plated.  
TERMINALS: Copper, silver plated.

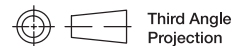
All models **C&K** US with all options.

Rocker



G

**C&K**



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change



**Стандарт  
Электрон  
Связь**

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**Наши контакты:**

**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331