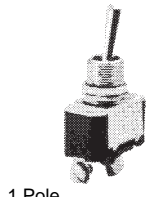
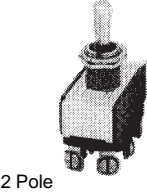


**GENERAL PURPOSE TOGGLE SWITCHES - AC RATED**

Listings Below Are UL Recognized and CSA Certified.  
Threaded Bushings Are 15/32 Inches in Diameter  
And Mounting Hardware Is Including



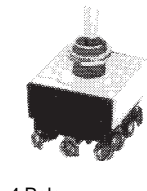
1 Pole



2 Pole



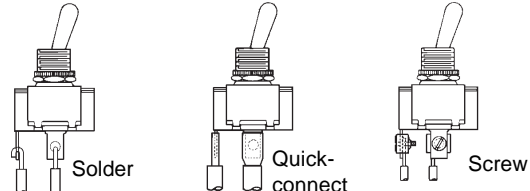
3 Pole



4 Pole

| Nominal Ratings |         |            | Poles and Throw | Circuits                | Bushing Length | Catalog Numbers |        |                 |        |                      |        |         |      |         |      |
|-----------------|---------|------------|-----------------|-------------------------|----------------|-----------------|--------|-----------------|--------|----------------------|--------|---------|------|---------|------|
| 125V AC         | 250V AC | HP 250V AC |                 |                         |                | Solder Lugs     | Price  | Screw Terminals | Price  | .250 Spade Terminals | Price  |         |      |         |      |
| 6               | 3       |            | 1 P.S.T.        | ON - NONE - OFF         | 0.344          | 7580K7          | \$1.93 | 7580K4          | \$2.15 | 7580K9               | \$1.93 |         |      |         |      |
|                 |         |            |                 |                         | 0.469          | 7580K6          | 1.93   |                 |        |                      |        | 7800K13 | 2.35 |         |      |
|                 |         |            | 1 P.D.T.        | ON - OFF - ON           | 0.469          | 7581K6          | 2.23   | 7581K4          | 2.60   | 7581K8               | 2.23   |         |      |         |      |
|                 |         |            |                 | ON - NONE - ON          |                | 7800K12         | 2.53   |                 |        |                      |        |         |      |         |      |
|                 |         |            |                 |                         |                | 7800K13         | 2.39   |                 |        |                      |        |         |      |         |      |
|                 |         |            |                 | ON - NONE - ON          | 0.469          | 7501K13         | 2.04   |                 |        |                      |        | 7500K14 | 2.17 | 7501K15 | 2.04 |
|                 |         |            | 1 P.S.T.        | ON - NONE - OFF         | 0.469          | 7802K11         | 2.36   | 7802K31         | 2.63   | 7802K15              | 2.36   |         |      |         |      |
|                 |         |            |                 | ON - OFF - ON           | 0.469          | 7503K13         | 2.50   |                 |        |                      |        | 7502K13 | 2.78 | 7503K15 | 2.52 |
|                 |         |            |                 | ON - NONE - ON          | 0.469          | 7802K12         | 2.80   |                 |        |                      |        | 7802K32 | 3.28 | 7802K22 | 2.82 |
|                 |         |            |                 | ON - Mom - OFF - ON Mom |                | 7505K4          | 2.52   |                 |        |                      |        | 7504K4  | 2.97 | 7505K6  | 2.52 |
|                 |         |            | 1 P.D.T.        | ON - Mom - OFF - ON Mom | 0.469          | 7802K13         | 2.73   | 7802K33         | 3.19   | 7802K23              | 2.80   |         |      |         |      |
|                 |         |            |                 |                         |                |                 |        |                 |        |                      |        | 7802K37 | 5.73 |         |      |
| 30              | 25      | 1/2        | 1 P.S.T.        | ON - NONE - OFF         | 0.344          |                 |        | 7509K5          | 4.01   |                      |        |         |      |         |      |
| 6               | 3       |            | 2 P.S.T.        | ON - NONE - OFF         | 0.469          | 7590K6          | 2.95   | 7590K4          | 3.47   |                      |        |         |      |         |      |
|                 |         |            |                 |                         |                | 7801K11         | 3.04   |                 |        |                      |        |         |      |         |      |
|                 |         |            | 2 P.D.T.        | ON - OFF - ON           | 0.469          | 7591K6          | 3.26   | 7591K4          | 4.13   |                      |        |         |      |         |      |
|                 |         |            |                 | ON - NONE - ON          | 0.469          | 7801K12         | 3.41   |                 |        |                      |        |         |      |         |      |
|                 |         |            | 2 P.S.T.        | ON - NONE - OFF         | 0.469          | 7592K6          | 3.39   | 7592K4          | 4.13   | 7592K8               | 3.12   |         |      |         |      |
|                 |         |            |                 | ON - OFF - ON           | 0.469          | 7801K13         | 3.60   |                 |        |                      |        |         |      |         |      |
|                 |         |            |                 | ON - NONE - OFF         | 0.469          | 7561K4          | 3.26   |                 |        |                      |        | 7560K5  | 3.65 | 7561K6  | 3.26 |
|                 |         |            |                 | ON - OFF - ON           | 0.469          | 7803K11         | 3.54   |                 |        |                      |        | 7803K31 | 4.19 | 7803K21 | 3.54 |
|                 |         |            | 2 P.D.T.        | ON - NONE - ON          | 0.469          | 7563K4          | 3.89   | 7564K6          | 4.76   | 7565K7               | 3.80   |         |      |         |      |
|                 |         |            |                 | ON - OFF - ON Mom       | 0.469          | 7803K12         | 4.19   |                 |        |                      |        | 7803K32 | 5.17 | 7803K22 | 4.19 |
|                 |         |            |                 | ON - Mom - OFF - ON Mom | 0.469          | 7565K5          | 3.65   |                 |        |                      |        | 7564K6  | 4.76 | 7565K7  | 3.80 |
|                 |         |            |                 | ON - Mom - OFF - ON Mom | 0.469          | 7803K13         | 4.19   |                 |        |                      |        | 7803K33 | 5.17 | 7803K23 | 4.19 |
|                 |         |            | 3 P.S.T.        | ON - NONE - OFF         | 0.469          |                 |        | 7803K70         | 7.71   |                      |        |         |      |         |      |
|                 |         |            |                 |                         |                |                 |        | 7803K37         | 8.26   |                      |        |         |      |         |      |
| 15              | 10      | 3/4        | 3 P.D.T.        | ON - NONE - OFF         | 0.469          | 7700K1          | 6.30   | 7700K2          | 7.30   | 7700K3               | 6.43   |         |      |         |      |
|                 |         |            |                 | ON - OFF - ON           | 0.469          | 7701K1          | 7.93   | 7701K2          | 8.80   | 7701K3               | 7.93   |         |      |         |      |
|                 |         |            |                 | ON - NONE - ON          | 0.469          | 7702K1          | 7.93   | 7702K2          | 8.80   | 7702K3               | 7.93   |         |      |         |      |
|                 |         |            | 3 P.S.T.        | ON - NONE - OFF         | 0.515          |                 |        | 8320K1          | 22.54  |                      |        |         |      |         |      |
|                 |         |            |                 | ON - NONE - OFF         | 0.469          | 7691K14         | 8.04   | 7690K8          | 8.91   |                      |        |         |      |         |      |
| 15              | 10      | 3/4        | 4 P.S.T.        | ON - OFF - ON           | 0.469          | 7693K2          | 9.60   | 7692K13         | 11.10  |                      |        |         |      |         |      |
|                 |         |            |                 | ON - NONE - ON          | 0.469          | 7695K5          | 9.60   | 7694K4          | 11.10  |                      |        |         |      |         |      |
|                 |         |            |                 | ON - OFF - ON           | 0.469          | 7805K12         | 12.13  | 7805K32         | 13.73  |                      |        |         |      |         |      |
| 20              | 10      | 1          | 4 P.D.T.        | ON - NONE - ON          | 0.469          | 7805K13         | 12.13  | 7805K33         | 13.73  |                      |        |         |      |         |      |
|                 |         |            |                 | ON - OFF - ON           | 0.469          |                 |        |                 |        |                      |        |         |      |         |      |

*Introducing COMBI-TERM Switches.  
The one universal termination that satisfies all wire connections on a single switch.  
45 terminal combinations from 15 switches*

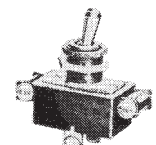


**General Purpose Toggle Switches ac/dc Rated**

Mounting hardware and terminal screws (where applicable) are furnished, unassembled.  
Threaded bushing - 0.468" -32  
Bright nickel plated bushing and bat lever  
Wire leads are 18 gauge, 6" long, skinned 3/4"  
All listings are UL recognized and CSA certified



1 Pole



2 pole

**Combi-Term Series Bat Lever**

| Catalog Number | Price   | Rating                               | Poles | Circuits              |
|----------------|---------|--------------------------------------|-------|-----------------------|
| 7802K41        | \$ 3.02 | 15A, 125F AC                         | SPST  | ON - NONE - OFF       |
| 7802K44        | 5.71    | 10A, 250V AC                         | SPDT  | Mom ON - NONE - OFF   |
| 7802K42        | 3.73    | 3/4-HP,                              |       | ON - OFF - ON         |
| 7802K43        | 3.60    | 120 - 240V AC                        | DPST  | ON - NONE - ON        |
| 7802K45        | 7.56    |                                      |       | Mom ON - NONE - ON    |
| 7802K46        | 5.71    |                                      | DPDT  | Mom ON - OFF - ON     |
| 7803K41        | 4.63    |                                      |       | ON - NONE - OFF       |
| 7803K42        | 5.71    |                                      | 3PST  | ON - OFF - ON         |
| 7803K43        | 5.67    |                                      |       | ON - NONE - ON        |
| 7803K47        | 9.06    |                                      | 3PDT  | Mom ON - OFF - Mom ON |
| 7804K41        | 9.56    | 16A, 125V AC                         |       | ON - NONE - OFF       |
| 7804K42        | 12.10   | 10A, 250V AC                         | 4PDT  | ON - OFF - ON         |
| 7804K43        | 13.82   | 1HP, 120V AC<br>1, 2 & 3 Phase       |       | ON - NONE - ON        |
| 7805K42        | 13.00   | 10A, 250V AC                         |       | ON - OFF - ON         |
| 7805K43        | 15.10   | 1/2 HP, 120 - 240<br>VAC 2 & 3 Phase |       | ON - NONE - ON        |

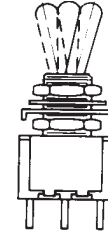
| Catalog Number | Price   | Ratings       | Poles | Bushing Length | Termination |
|----------------|---------|---------------|-------|----------------|-------------|
| 8282K113       | \$ 3.50 | 3A, 125Vac/dc | SPDT  | 0.344          | Solder      |
| 8282K114       | 3.50    | 1A, 250Vdc    |       | 0.469          | Solder      |
| 8280K115       | 2.54    | 3A, 250Vdc    | SPST  | 0.344          | Solder      |
| 8295K107       | 3.56    |               |       |                | Screw       |
| 8290K115       | 3.06    | 6A, 125Vac/dc | DPST  | 0.469          | Wire Lead   |
| 8280K116       | 3.06    |               |       |                | Solder      |
| 8295K108       | 3.50    | 3A, 250Vdc    | DPST  | 0.344          | Screw       |
| 8290K116       | 3.06    |               |       |                | Wire Lead   |
| 8381K107       | 2.63    | 6A, 125Vac/dc | DPST  | 0.469          | Solder      |
| 8396K107       | 3.08    |               |       |                | Screw       |
| 8391K107       | 3.08    | 3A, 250Vdc    | DPST  | 0.469          | Wire Lead   |
| 8381K108       | 2.63    |               |       |                | Solder      |
| 8396K108       | 3.08    | 3A, 250Vdc    | DPST  | 0.469          | Screw       |
| 8370K107       | 4.60    |               |       |                | Solder      |
| 8372K107       | 5.93    |               |       |                | Screw       |
| 8371K107       | 5.93    |               |       |                | Wire Lead   |
| 8373K107       | 5.32    |               |       |                | Solder      |
| 8375K107       | 6.82    |               |       |                | Screw       |
| 8374K107       | 7.50    |               |       |                | Wire Lead   |

## Miniature Toggle Switches

6 amp, 125 VAC, 3 amp, 250 VAC, 6 amp @ 28 VDC resistive. UL recognized, CSA certified. Mounting hardware included. Switches listed have BAT handle levers. Many options are available on this miniature series, such as special handles, bushings, terminals, contact material and special finishes. If you need complete specifications, please request PUBL. NO. NC-169 "Miniature Switches".

| Part Number  | Price  | Poles & Throw | Circuits |        |        | Bushing         | Terminals      |
|--------------|--------|---------------|----------|--------|--------|-----------------|----------------|
|              |        |               | Up       | Center | Down   |                 |                |
| A121S1YZQ    | \$4.15 | S.P.D.T.      | ON       | OFF    | ON     | 1/4-40X.352     | Solder Lugs    |
| A121S1YCQ    | 4.39   | S.P.D.T.      | ON       | OFF    | ON     | 1/4-40X.352     | Printed Cir    |
| A123S1YZQ    | 3.50   | S.P.D.T.      | ON       | NONE   | ON     | 1/4-40X.352     | Solder Lugs    |
| A123S1YCQ    | 3.84   | S.P.D.T.      | ON       | NONE   | ON     | 1/4-40X.352     | Printed Cir    |
| A121M1D9AB * | 4.76   | S.P.D.T.      | ON       | OFF    | ON     | 1/4 SmoothX.280 | Rt. Angle P.C. |
| A123M1D9AB * | 4.21   | S.P.D.T.      | ON       | NONE   | ON     | 1/4 SmoothX.280 | Rt. Angle P.C. |
| A126M1D9AB * | 4.76   | S.P.D.T.      | ON       | NONE   | ON Mom | 1/4 SmoothX.280 | Rt. Angle P.C. |
| A127M1D9AB * | 4.76   | S.P.D.T.      | ON Mom   | OFF    | ON Mom | 1/4 SmoothX.280 | Rt. Angle P.C. |
| A126S1YCQ    | 4.39   | S.P.D.T.      | ON       | NONE   | ON Mom | 1/4-40X.352     | Printed Cir    |
| A126S1YZQ    | 4.15   | S.P.D.T.      | ON       | NONE   | ON Mom | 1/4-40X.352     | Solder Lugs    |
| A127S1YCQ    | 4.39   | S.P.D.T.      | ON Mom   | OFF    | ON Mom | 1/4-40X.352     | Printed Cir    |
| A127S1YZQ    | 4.15   | S.P.D.T.      | ON Mom   | OFF    | ON Mom | 1/4-40X.352     | Solder Lugs    |
| A131S1YZQ    | 4.15   | S.P.D.T.      | ON       | OFF    | ON Mom | 1/4-40X.352     | Solder Lugs    |
| A221S1YZQ    | 6.21   | D.P.D.T.      | ON       | OFF    | ON     | 1/4-40X.352     | Solder Lugs    |
| A223S1YZQ    | 4.66   | D.P.D.T.      | ON       | NONE   | ON     | 1/4-40X.352     | Solder Lugs    |
| A223S1YCQ    | 5.47   | D.P.D.T.      | ON       | NONE   | ON     | 1/4-40X.352     | Printed Cir    |
| A226S1YZQ    | 6.21   | D.P.D.T.      | ON       | NONE   | ON     | 1/4-40X.352     | Solder Lugs    |
| A226S1YCQ    | 5.80   | D.P.D.T.      | ON       | NONE   | ON Mom | 1/4-40X.352     | Printed Cir    |
| A227S1YZQ    | 6.21   | D.P.D.T.      | ON Mom   | OFF    | ON Mom | 1/4-40X.352     | Solder Lugs    |
| A227S1YCQ    | 6.39   | D.P.D.T.      | ON Mom   | OFF    | ON Mom | 1/4-40X.352     | Printed Cir    |
| A231S1YZQ    | 5.70   | D.P.D.T.      | ON       | OFF    | ON Mom | 1/4-40X.352     | Solder Lugs    |
| A232S1YZQ    | 6.65   | D.P.D.T.      | ON       | ON     | ON Mom | 1/4-40X.352     | Solder Lugs    |
| A321S1YZQ    | 10.32  | D.P.D.T.      | ON       | OFF    | ON     | 1/4-40X.352     | Solder Lugs    |
| A323S1YZQ    | 9.80   | 3P.D.T.       | ON       | NONE   | ON     | 1/4-40X.352     | Solder Lugs    |
| A323S1YCQ    | 9.95   | 3P.D.T.       | ON       | NONE   | ON     | 1/4-40X.352     | Printed Cir    |
| A327S1YZQ    | 12.80  | 3P.D.T.       | ON Mom   | OFF    | ON Mom | 1/4-40X.352     | Solder Lugs    |
| A421S1YZQ    | 12.60  | 4P.D.T.       | ON       | OFF    | ON     | 1/4-40X.352     | Solder Lugs    |
| A421S1YCQ    | 13.25  | 4P.D.T.       | ON       | OFF    | ON     | 1/4-40X.352     | Printed Cir    |
| A423S1YZQ    | 12.00  | 4P.D.T.       | ON       | NONE   | ON     | 1/4-40X.352     | Solder Lugs    |
| A423S1YCQ    | 12.20  | 4P.D.T.       | ON       | NONE   | ON     | 1/4-40X.352     | Printed Cir    |

\* Bat Lever, .200 " long Chrome. All others are .410 " long Chrome.



## Miniature Pushbutton Switches

| Part Number | Price  | Poles & Throw | Action                            | Cap             | Terminals   |
|-------------|--------|---------------|-----------------------------------|-----------------|-------------|
| PB12331ZQ   | \$4.78 | S.P.D.T.      | ON - NONE - ON Push on - Push Off | .375 Dia, Black | Solder Lugs |
| PB12311ZQ   | 4.78   | S.P.D.T.      | ON - NONE - ON Push on - Push Off | .200 Dia, Black | Solder Lugs |
| PB12631ZQ   | 5.04   | S.P.D.T.      | ON - NONE - ON Mom                | .375 Dia, Black | Solder Lugs |
| PB12611ZQ   | 5.04   | S.P.D.T.      | ON - NONE - ON Mom                | .200 Dia, Black | Solder Lugs |



## Keylite Pushbutton Switches - Illuminated or Non-Illuminated

### SPECIFICATIONS

Ratings - Switch - 10mA at 24 VDC.

Mechanical Life and Electrical Life - 5 million operations momentary, 10,000 maintained.

Initial contact resistance - 50 milliohms max.

Insulation resistance - 10<sup>9</sup> Ohms minimum

Contact Bounce - 2.0 ms maximum

Operating Force - 150 grams approx.

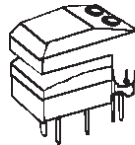
Total Key Travel - .098 (2.5mm)

Pre-Travel - .039 (1mm)

Ambient Temperature -25°C to +85°C (-13°F to 185°F)

Mounted Method - Direct soldering onto standard Matrix printed circuit board.

Interchangeable Keys - Large variety of colors



### MATERIALS:

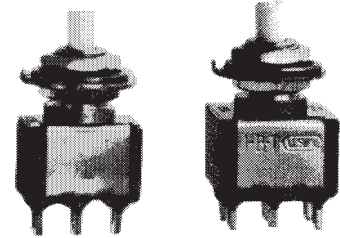
Housing - Polycarbonate

Key Cap - ABS

Switching Contacts - Gold plate over silver plated brass

| Part Number        | Description                            | Price   |
|--------------------|--|---------|
| <b>SB6SDV143A6</b> | Narrow one Red LED Black Key SPDT MOM  | \$ 5.20 |
| <b>SB6SDV143A1</b> | Narrow one Red LED White Key SPDT MOM  | 5.20    |
| <b>SB6SDV445A6</b> | Narrow Two Red LEDs Black Key SPDT MOM | 5.93    |
| <b>SB6SDV445A1</b> | Narrow Two Red LEDs White Key SPDT MOM | 5.93    |
| <b>SB6SDV641A6</b> | Narrow No LED Black Key SPDT MOM       | 4.30    |
| <b>SB6SDV641A1</b> | Narrow No LED White Key SPDT MOM       | 4.30    |

**Sensitive Snap-Action Push-button Switches - Solder and P.C. Terminals (Momentary Action)**



One Pole

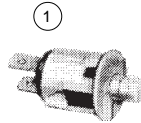
Two Pole

| Part Number<br>Switch w/o Cap | Price         | Poles & Throw | Terminals   | CAPS   | Price         |
|-------------------------------|---------------|---------------|-------------|--|---------------|
| <b>PS1100 Q</b>               | <b>\$5.75</b> | S.P.D.T.      | Solder Lugs | W-KN-17 Black Cap, .375 Dia X .250 High                    | <b>\$0.26</b> |
| <b>PS1200 Q</b>               | <b>8.00</b>   | D.P.D.T.      | Solder Lugs | W-KN-17A White Cap, .375 X .25                             | <b>0.32</b>   |
| <b>PS2100 Q</b>               | <b>6.00</b>   | S.P.D.T       | Printed Cir | W-KN-17B Red Cap, .375 X .25                               | <b>0.26</b>   |
| <b>PS2200 Q</b>               | <b>8.50</b>   | D.P.D.T.      | Printed Cir | Other sizes and color caps are available on special order. |               |

Single pole circuit rated 5 amps, Double pole circuit rated 1 amp.

**General Purpose Pushbutton Switches ac Rated**

One hole, flush and snap in mounting  
Slow make, slow break contact mechanism  
Mounting hardware (where applicable) consists of one hexagon locknut and one bright nickel plated curled face nut (except 8411 which has a bright nickel plated hexagon face nut)  
Bushings are 0.468" - 32 threaded - keyways are 0.068" wide by 0.035" deep  
Bushings and metal buttons are bright nickel plated  
Terminal screws and mounting hardware are furnished unassembled  
All switches below are UL recognized and CSA Certified.

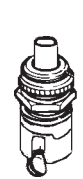


**8411**  
One hole Mounted Light Duty Momentary Contact

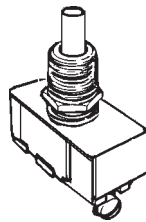
| Type | Nominal Ratings |              | Poles and Throw | Mounting or Bushing Length | Button       |                     |                | Typical max. Operating Force | Contacts     | Catalog Numbers |        |             |        |                    |                |
|------|-----------------|--------------|-----------------|----------------------------|--------------|---------------------|----------------|------------------------------|--------------|-----------------|--------|-------------|--------|--------------------|----------------|
|      | Amperes 125V    | ac / dc 250V |                 |                            | Construction | Extensio Length In. | Color          |                              |              | Screw Terminals | Price  | Solder Lugs | Price  | Spade (.250")      | Price          |
| ①    | 3/4             | 1/4          | 1P.S.T.         | Snap-in                    |              | 3/8<br>3/8          | White<br>White | ---                          | N.C.<br>N.O. | ---             |        | ---         |        | 8423K1#<br>8424K1# | \$1.75<br>1.80 |
| ②    | 3/4             | 1/4          | 1 P.S.T.        | 1/4                        | Nylon        | 1/4                 | Black          | 1.5 lbs.                     | N.C.         | ---             |        | 8411K5      | \$3.40 | ---                |                |
|      |                 |              |                 | 1/4                        | Nylon        | 1/4                 | Red            | 1.5 lbs.                     | N.O.         | ---             |        | ---         |        | 8411K13#           | 1.78           |
|      |                 |              |                 | 15/32                      | Nylon        | 13/32               | Black          | 1.5 lbs.                     | N.C.         | 8411K7          | \$2.28 | 8411K8      | 1.91   | 8411K10            | 3.15           |
|      |                 |              |                 | 15/32                      | Nylon        | 3/8                 | Black          | 1.5 lbs.                     | N.O.         | 8411K12         | 2.08   | ---         |        | 8411K11#           | 1.73           |

# Combination Solder lug and spade terminal.

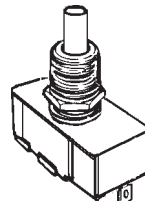
The listings below are all momentary contact normally open except number 8434 which has one N.O. and one N.C. contact.



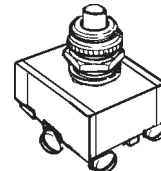
**8440**  
(1 P.S.T.)



**8434**  
(1 P.D.T.)



**8442/8443**  
(1 P.S.T.)



**8448**  
(2 P.S.T.)

| Nominal Ratings |      |      |      | Hp 125-250V | Poles and Throw | Button   |       |                  | Maximum Operating Force | Bushing Length | Catalog Number with Screw Terminals | Price |
|-----------------|------|------|------|-------------|-----------------|----------|-------|------------------|-------------------------|----------------|-------------------------------------|-------|
| Amperes ac      |      |      |      |             |                 | Material | Color | Extension inches |                         |                |                                     |       |
| 125V            | 250V | N.O. | N.C. |             |                 |          |       |                  |                         |                |                                     |       |
| N.O.            | N.C. | N.O. | N.C. |             | Metal           |          | 19/64 | 2.5 lbs          | 15/32                   | 8440K3         | \$5.80                              |       |
| * 3             |      |      |      |             |                 |          |       |                  |                         |                |                                     |       |
| 6               |      | 3    |      |             | Metal           |          | 17/32 | 0.9 lbs          | 11/16                   | 8442K3         | 3.50                                |       |
|                 |      |      |      |             | Metal           | Black    | 1/4   | 0.9 lbs          | 11/32                   | 8442K4         | 3.41                                |       |
|                 |      |      |      |             | Phenolic        | Black    | 17/32 | 0.8 lbs          | 11/16                   | 8443K2         | 5.89                                |       |
| 15              |      | 10   |      | 1/3         | Metal           | Black    | 17/32 | 0.9 lbs          | 11/16                   | 8444K3         | 3.65                                |       |
|                 |      |      |      |             | Phenolic        | Black    | 17/32 | 0.8 lbs          | 11/16                   | 8445K2         | 12.06                               |       |
| 15              |      | 10   | 5    | 1/2         | Metal           |          | 17/32 | 2.0 lbs          | 11/16                   | 8434K2         | 4.95                                |       |
| 15              |      | 10   |      |             | Metal           |          | 1/4   |                  | 11/32                   | 8448K2         | 6.40                                |       |

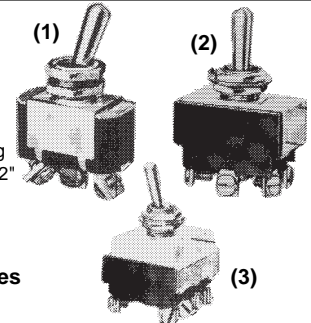
\* Rated 5 amps at 12VDC

**MIL-S-83731 SWITCHES WITH LEVER SEAL**

**STANDARD LEVER SELECTION TABLE**

| Circuit with Lever in |                 |                        | Screw Terminals |                |               |                         | Poles/<br>Fig.<br>No. |
|-----------------------|-----------------|------------------------|-----------------|----------------|---------------|-------------------------|-----------------------|
| Up Position           | CENTER Position | DOWN Position (Keyway) | MS Part Number  | Part Number    | Price         |                         |                       |
| ON                    | OFF             | ON                     | MS35058-21      | <b>8800K16</b> | <b>\$9.23</b> | One Pole<br><b>(1)</b>  |                       |
| ON                    | NONE            | OFF                    | MS35058-22      | <b>8801K22</b> | <b>8.34</b>   |                         |                       |
| ON                    | NONE            | ON                     | MS35058-23      | <b>8810K15</b> | <b>9.36</b>   |                         |                       |
| ON                    | OFF             | NONE                   | MS35058-24      | <b>8801K23</b> | <b>8.34</b>   |                         |                       |
| ON                    | OFF             | ON                     | MS35058-27      | <b>8812K14</b> | <b>9.86</b>   |                         |                       |
| OFF                   | NONE            | ON                     | MS35058-30      | <b>8811K17</b> | <b>9.00</b>   |                         |                       |
| ON                    | OFF             | ON                     | MS35059-21      | <b>8820K16</b> | <b>12.91</b>  | Two Pole<br><b>(2)</b>  |                       |
| ON                    | NONE            | OFF                    | MS35059-22      | <b>8822K20</b> | <b>11.60</b>  |                         |                       |
| ON                    | NONE            | ON                     | MS35059-23      | <b>8824K14</b> | <b>11.63</b>  |                         |                       |
| ON                    | OFF             | NONE                   | MS35059-24      | <b>8822K21</b> | <b>11.60</b>  |                         |                       |
| ON                    | NONE            | ON                     | MS35059-26      | <b>8830K13</b> | <b>16.10</b>  |                         |                       |
| ON                    | OFF             | ON                     | MS35059-27      | <b>8834K5</b>  | <b>16.71</b>  |                         |                       |
| ON                    | OFF             | ON                     | MS35059-31      | <b>8832K6</b>  | <b>15.89</b>  | Four Pole<br><b>(3)</b> |                       |
| ON                    | OFF             | ON                     | MS25068-21      | <b>7662K7</b>  | <b>28.45</b>  |                         |                       |
| ON                    | NONE            | ON                     | MS25068-23      | <b>7664K5</b>  | <b>25.63</b>  |                         |                       |

- Meets MIL-S-83731 Military requirements
- Silicone rubber lever seal prevents entry of contaminants
- Silver to Silver Contacts
- Screw terminals also tin dipped to facilitate soldering
- Standard toggle length 11/16" - Bushing height 15/32"
- Bushing 15/32" - 32 thread
- Terminal screws #6-32
- Terminal and mounting furnished unassembled



**CURRENT RATINGS - Standard Lever Switches**

Current Capacity in Amperes Per Pole

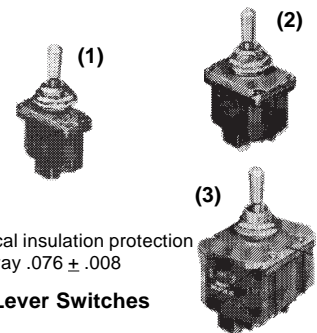
| Switch  | Type Operator | 28V dc    |                     |                | 115V ac 400Hz |                     |                | 115 ac 60Hz         |                |
|---------|---------------|-----------|---------------------|----------------|---------------|---------------------|----------------|---------------------|----------------|
|         |               | Lamp Load | Resis-<br>tive Load | Inductive Load | Lamp Load     | Resis-<br>tive Load | Inductive Load | Resis-<br>tive Load | Inductive Load |
| MS35058 | Maintained    | 7         | 25                  | 15             | 3             | 10                  | 10             | 10                  | 10             |
|         | Momentary     | 5         | 20                  | 10             | 2             | 10                  | 7              | 10                  | 7              |
| MS35059 | Maintained    | 7         | 20                  | 15             | 4             | 20                  | 15             | 20                  | -              |
|         | Momentary     | 5         | 18                  | 10             | 2             | 11                  | 8              | 11                  | -              |
| MS25068 | Maintained    | 5         | 20                  | 12             | 4             | 20                  | 15             | -                   | -              |
|         | Momentary     | 4         | 18                  | 10             | 2             | 11                  | 5              | -                   | -              |

**MIL-S-3950 ENVIRONMENTALLY SEALED SWITCHES**

**STANDARD LEVER SELECTION TABLE**

| Circuit with Lever in |                 |                        | Screw Terminals |                |                |                         | Poles/<br>Fig.<br>No. |
|-----------------------|-----------------|------------------------|-----------------|----------------|----------------|-------------------------|-----------------------|
| Up Position           | CENTER Position | DOWN Position (Keyway) | MS Part Number  | Part Number    | Price          |                         |                       |
| ON                    | OFF             | ON                     | MS24523-21      | <b>8500K1</b>  | <b>\$18.60</b> | One Pole<br><b>(1)</b>  |                       |
| ON                    | NONE            | OFF                    | MS24523-22      | <b>8500K9</b>  | <b>18.60</b>   |                         |                       |
| ON                    | NONE            | ON                     | MS24523-23      | <b>8500K4</b>  | <b>18.60</b>   |                         |                       |
| ON                    | NONE            | ON*                    | MS24523-26      | <b>8500K5</b>  | <b>18.60</b>   |                         |                       |
| *ON                   | OFF             | ON*                    | MS24523-27      | <b>8500K2</b>  | <b>18.60</b>   |                         |                       |
| OFF                   | NONE            | ON*                    | MS24523-30      | <b>8500K11</b> | <b>18.60</b>   |                         |                       |
| ON                    | OFF             | ON                     | MS24524-21      | <b>8501K1</b>  | <b>24.93</b>   | Two Pole<br><b>(2)</b>  |                       |
| ON                    | NONE            | OFF                    | MS24524-22      | <b>8501K9</b>  | <b>24.93</b>   |                         |                       |
| ON                    | NONE            | ON                     | MS24524-23      | <b>8501K4</b>  | <b>24.93</b>   |                         |                       |
| ON                    | NONE            | ON*                    | MS24524-26      | <b>8501K5</b>  | <b>24.93</b>   |                         |                       |
| *ON                   | OFF             | ON*                    | MS24524-27      | <b>8501K2</b>  | <b>24.93</b>   |                         |                       |
| OFF                   | NONE            | ON*                    | MS24524-30      | <b>8501K11</b> | <b>24.93</b>   |                         |                       |
| ON                    | OFF             | ON*                    | MS24524-31      | <b>8501K3</b>  | <b>24.93</b>   | Four Pole<br><b>(3)</b> |                       |
| ON                    | OFF             | ON                     | MS24525-21      | <b>8502K1</b>  | <b>40.08</b>   |                         |                       |
| ON                    | NONE            | ON                     | MS24525-23      | <b>8502K4</b>  | <b>40.08</b>   |                         |                       |

- Environmentally sealed
- Meets MIL-S-3950 requirements
- Reliable momentary action
- Base material is self extinguishing
- Molded-in terminal inserts
- Flush Screw Terminals
- Full silicone seal - increased electrical insulation protection
- 15/32" - 32 threaded bushing - Keyway .076 ± .008



**CURRENT RATINGS - Standard Lever Switches**

Current Capacity in Amperes Per Pole

| Switch  | Type Operator | 28V dc    |                     |                | 115V ac 400Hz |                     |                |
|---------|---------------|-----------|---------------------|----------------|---------------|---------------------|----------------|
|         |               | Lamp Load | Resis-<br>tive Load | Inductive Load | Lamp Load     | Resis-<br>tive Load | Inductive Load |
| MS24523 | Maintained    | 5         | 20                  | 10             | 3             | 15                  | 7              |
|         | Momentary     | 4         | 15                  | 10             | 2             | 15                  | 7              |
| MS24524 | Maintained    | 7         | 20                  | 15             | 4             | 15                  | 15             |
|         | Momentary     | 5         | 18                  | 10             | 2             | 11                  | 8              |
| MS24525 | Maintained    | 5         | 20                  | 12             | 4             | 15                  | 15             |
|         | Momentary     | 4         | 18                  | 10             | 2             | 11                  | 8              |

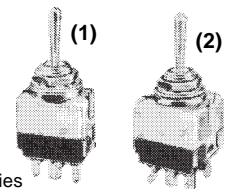
\* Momentary Action

**MIL-S-8834 MINIATURE POSITIVE ACTION SWITCHES**

**STANDARD LEVER SELECTION TABLE - Small Lever**

| Circuit with Lever in |                 |                        | Screw Terminals |               |                |                        | Poles/<br>Fig.<br>No. |
|-----------------------|-----------------|------------------------|-----------------|---------------|----------------|------------------------|-----------------------|
| Up Position           | CENTER Position | DOWN Position (Keyway) | MS Part Number  | Part Number   | Price          |                        |                       |
| ON                    | OFF             | ON                     | MS24655-211     | <b>8866K1</b> | <b>\$52.65</b> | One Pole<br><b>(1)</b> |                       |
| ON                    | NONE            | OFF                    | MS24655-221     | <b>8866K7</b> | <b>52.65</b>   |                        |                       |
| ON                    | NONE            | ON                     | MS24655-231     | <b>8866K4</b> | <b>52.65</b>   |                        |                       |
| NONE                  | OFF             | ON*                    | MS24655-281     | <b>8866K6</b> | <b>56.84</b>   |                        |                       |
| ON                    | OFF             | ON                     | MS24656-211     | <b>8867K1</b> | <b>65.89</b>   | Two Pole<br><b>(2)</b> |                       |
| ON                    | NONE            | ON                     | MS24656-231     | <b>8867K4</b> | <b>65.89</b>   |                        |                       |
| ON                    | OFF             | ON*                    | MS24656-311     | <b>8867K3</b> | <b>72.73</b>   |                        |                       |

- Meets MIL-S-8834 requirements
- Sealed bushing
- Wiping action contacts - dry circuit carrying capabilities
- Positive Make and Break action
- Solder Lug terminals with .045/.050 diameter holes
- Bushing 1/4-40 threaded



**CURRENT RATINGS - Standard Lever Switches**

Current Capacity in Amperes Per Pole; Minimum Rating: 25 microamps at 5 millivolts or less.

| 28V dc | 50V dc | 115V ac |        | 28V dc | 50V dc | 115V ac |        |
|--------|--------|---------|--------|--------|--------|---------|--------|
|        |        | 60 Hz   | 400 Hz |        |        | 60 Hz   | 400 Hz |
|        |        | 5       | 1      |        |        | 2       | 3      |

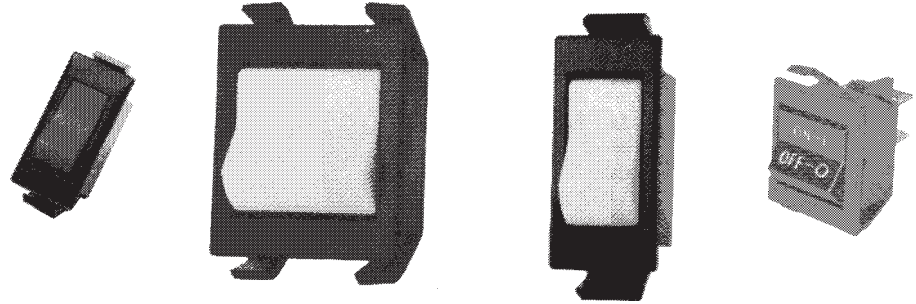
\* Momentary Action



**Miniature Snap In Lighted and Non-Lighted Rocker Switches 1600 and 2600 Series**

The 1600 and 2600 series of miniature snap-in rocker switches have worldwide approvals, featuring a combination of UL, CSA, VDE, UTE, BEAB, FI, DEMKO, NEMKO, SEMKO and KEMA listings at up to 16 Amperes, 250 Volts AC.

**Mounting Means:** Snap in rectangular cutout:  
1500 & 1600 Base Type- .480" Wide x 1.071" Long  
2500 & 2600 Base Type- .872" Wide x 1.071" Long  
Minimum Panel Thickness .030"  
Maximum Panel Thickness .118"

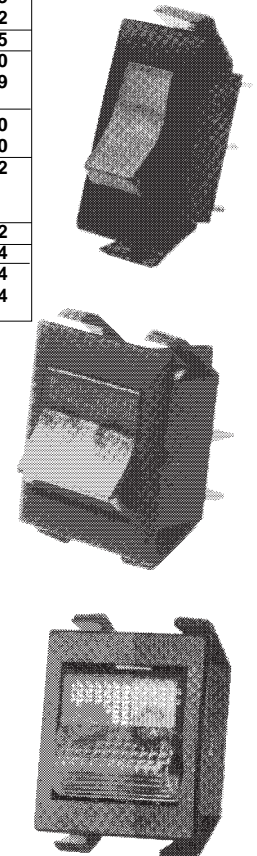


**NON- LIGHTED**

| Part Number  | Nominal Rating Amperes                          | Poles And Throw                                 | Action With Lever                             |        |   | Description  | Price                                     |  |      |
|--------------|---|---|---|--------|---|--|---|--|------|
|              |   |   | Up  | Center | Down                                      |  |   |  |      |
| 1500-11E     | 15A, 125Vac<br>10A, 250Vac                      | SPST  | ON  | NONE   | OFF                                       | Black Base; BlackLever, Quick Disconnect                       | \$0.91                                    |  |      |
| 1500-11E014  |   |   | MomON   | NONE   | OFF                                       | Black Base; BlackLever, Quick Disconnect with ( I - O ) Legend | 1.21                                      |  |      |
| 1501-11E     | MomON   |   | OFF   | ON     | Black Base; BlackLever, Quick Disconnect  | 1.58   |   |  |      |
| 1504-11E     | MomON   |   | OFF   | ON     | Black Base; BlackLever, Quick Disconnect  | 1.42   |   |  |      |
| 1506-11E     | 10A, 125 - 250Vac                               |   | MomON   | OFF    | MomON                                     | Black Base; BlackLever, Quick Disconnect                       | 2.56                                      |  |      |
| 1600-11E     | 16A, 125 - 250Vac                               |   | ON  | NONE   | OFF                                       | Black Base; BlackLever, Quick Disconnect                       | 1.04                                      |  |      |
| 1600-12E     | Black Base; White Lever; Quick Disconnect       |   |   |        |   | 1.04   |   |  |      |
| 1600H-11E    | 22A, 125Vac;<br>16A, 250Vac;<br>1HP, 125/250Vac |   | Mom ON  | NONE   | OFF                                       | Black Base; BlackLever, Quick Disconnect                       | 1.25                                      |  |      |
| 1601-11E     | 16A, 125 - 250Vac                               |   | SPDT  | ON     | NONE                                      | ON   | Black Base; Black Lever, Quick Disconnect | 1.34   |      |
| 1602-12E     |   |   |   | ON     | NONE                                      | ON   | Black Base; Black Lever; Quick Disconnect | 1.54   |      |
| 1603-11E     |   | ON  |   | NONE   | MomON                                     | Black Base; White Lever; Quick Disconnect                      | 1.54                                      |  |      |
| 1603-12E     |   | ON  |   | NONE   | MomON                                     | Black Base; Black Lever; Quick Disconnect                      | 1.53                                      |  |      |
| 1604-11E     |   | ON  |   | NONE   | MomON                                     | Black Base; Black Lever; Quick Disconnect                      | 1.53                                      |  |      |
| 1604-12E     |   | ON  |   | OFF    | ON  | Black Base; Black Lever; Quick Disconnect                      | 1.48                                      |  |      |
| 1604-22E     |   | ON  |   | OFF    | ON  | Black Base; White Lever; Quick Disconnect                      | 1.48                                      |  |      |
| 2500-11E     |   | 15A, 125Vac<br>10A, 250Vac                      |   | DPST   | ON  | NONE   | OFF                                       | Black Base; White Lever; Quick Disconnect                              | 1.48 |
| 2500H-11E734 |   | 22A, 125Vac;<br>16A, 250Vac;<br>1HP, 125/250Vac |   |        | ON  | NONE   | OFF                                       | Black Base; Black Lever, Quick Disconnect with ( ON-I / OFF-O ) Legend | 1.96 |
| 2501-11E     |   | 15A, 125Vac                                     |   | MomON  | NONE                                      | OFF  | Black Base; Black Lever, Quick Disconnect | 1.67   |      |
| 2502-11E     | 10A, 250Vac                                     | DPDT  | ON  | NONE   | ON  | Black Base; Black Lever, Quick Disconnect                      | 2.03                                      |  |      |
| 2504-11E     | ON  |   | OFF   | ON     | Black Base; Black Lever, Quick Disconnect | 2.12   |   |  |      |
| 2506-11E     | 10A, 125/250Vac                                 |   | MomON   | OFF    | MomON                                     | Black Base; Black Lever, Quick Disconnect                      | 2.85                                      |  |      |
| 2600-11E     | 16A, 125/250Vac                                 | DPST  | ON  | NONE   | OFF                                       | Black Base; Black Lever, Quick Disconnect                      | 1.60                                      |  |      |
| 2600-11E714  |   |   |   |        |   | Black Base; Black Lever, Quick Disconnect with ( I-O ) Legend  | 1.89                                      |  |      |
| 2600-12E     |   |   | ON  | NONE   | OFF                                       | Black Base; White Lever, Quick Disconnect                      | 1.60                                      |  |      |
| 2600-13E     |   |   | ON  | NONE   | OFF                                       | Black Base; Red Lever, Quick Disconnect                        | 1.60                                      |  |      |
| 2600H-11E    |   |   | 22A, 125Vac<br>16A, 250Vac<br>1HP, 125/250Vac | ON     | NONE                                      | OFF  | Black Base; Black Lever, Quick Disconnect | 1.82   |      |
| 2601-11E     |   |   | MomON   | NONE   | OFF                                       | Black Base; Black Lever, Quick Disconnect                      | 1.82                                      |  |      |
| 2602-11E     |   |   | ON  | NONE   | ON  | Black Base; Black Lever, Quick Disconnect                      | 2.14                                      |  |      |
| 2604-11E     |   |   | ON  | OFF    | ON  | Black Base; Black Lever, Quick Disconnect                      | 2.24                                      |  |      |
| 2604-12E     |   |   | ON  | OFF    | ON  | Black Base; White Lever, Quick Disconnect                      | 2.24                                      |  |      |

**LIGHTED**

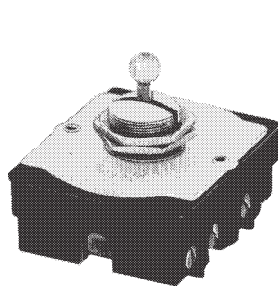
| Part Number | Nominal Rating Amperes                            | Poles And Throw | Action With Lever |        |      | Description   | Price   |      |
|-------------|---|-----------------|-------------------|--------|------|---|---|------|
|             |   |                 | Up                | Center | Down |   |   |      |
| 1500A11E    | 15A, 125Vac                                       | SPST            | ON                | NONE   | OFF  | 125V Neon, Amber Lens, Black Base, Quick Disconnect | \$2.19  |      |
| 1500G11E    | 10A, 250Vac                                       |                 |                   |        |      | 125V Neon, Green Lens, Black Base, Quick Disconnect | 2.19  |      |
| 1500R11E    | 125V Neon, Red Lens, Black Base, Quick Disconnect |                 |                   |        |      | 2.19  |   |      |
| 1600A11E    | 16A, 125 - 250Vac                                 |                 |                   |        |      | 125V Neon, Amber Lens, Black Base, Quick Disconnect | 2.33  |      |
| 1600G11E    |   |                 |                   |        |      | 125V Neon, Green Lens, Black Base, Quick Disconnect | 2.33  |      |
| 1600R11E    |   |                 |                   |        |      | 125V Neon, Red Lens, Black Base, Quick Disconnect   | 2.33  |      |
| 2500A11E    | 15A, 125Vac                                       | DPST            | ON                | NONE   | OFF  | 125V Neon, Amber Lens, Black Base, Quick Disconnect | 2.65  |      |
| 2500G11E    | 10A, 250Vac                                       |                 |                   |        |      | 125V Neon, Green Lens, Black Base, Quick Disconnect | 2.65  |      |
| 2500R11E    | 125V Neon, Red Lens, Black Base, Quick Disconnect |                 |                   |        |      | 2.65  |   |      |
| 2600A11E    | 16A, 125/250Vac                                   |                 |                   |        |      | 125V Neon, Amber Lens, Black Base, Quick Disconnect | 2.88  |      |
| 2600A21E    |   |                 |                   |        |      | 250V Neon, Amber Lens, Black Base, Quick Disconnect | 2.88  |      |
| 2600G11E    |   |                 |                   |        |      | 125V Neon, Green Lens, Black Base, Quick Disconnect | 2.88  |      |
| 2600R11E    |   |                 |                   |        |      | 125V Neon, Red Lens, Black Base, Quick Disconnect   | 2.88  |      |
| 2600HR11E   |   |                 |                   |        |      | 22A, 125Vac<br>16a, 250Vac<br>1HP, 125/250Vac       | 125V Neon, Red Lens, Black Base, Quick Disconnect | 3.09 |



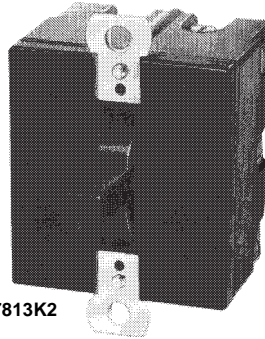
**Heavy Duty AC/DC Switches, 10-14 Amperes**

These heavy duty toggle switches have contacts with a quick-make/quick-break wiping action. The three position switches offer a unique positive center stop feature which assures that the lever cannot be thrown from one side through the center "Off" position without stopping. Used for motor reversing and speed control applications.

| PART NUMBER | PRICE    | RATING AC / DC                           | CIRCUIT | ACTION    | TERMINATION |
|-------------|----------|--|---------|-----------|-------------|
| 7814K2      | \$ 70.84 | 14A, 125V<br>7A, 250V<br>3/4HP, 125-250V | DPDT    | ON-OFF-ON | SCREW       |
| 7815K3      | 92.84    | 10A, 125V<br>5A, 250V                    | 3PDT    | ON-OFF-ON | SCREW       |
| 7816K2      | 109.95   | 10A, 125V<br>5A, 250V<br>1/2HP, 125-250V | 4PDT    | ON-OFF-ON | SCREW       |



7815K3



7813K2

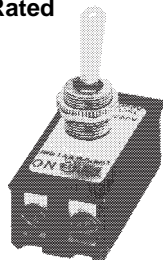
**Extra Heavy Duty AC/DC Switches, 10-30 Amperes**

| PART NUMBER | PRICE     | RATING AC / DC         | CIRCUIT | ACTION    | TERMINATION |
|-------------|-----------|------------------------|---------|-----------|-------------|
| 7810K2      | \$ 109.47 | 20A, 125V<br>10A, 250V | DPDT    | ON-OFF-ON | SCREW       |
| 7813K2      | 206.26    | 30A, 125V<br>20A, 250V | 4PDT    | ON-OFF-ON | SCREW       |

**Industrial Toggles - AC/DC Rated**

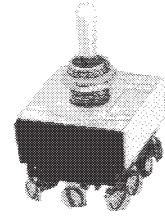
Listings are UL recognized and CSA certified.

Quick Make, Quick Break  
Nontearable, Self Cleaning,  
Wiping Action Contacts



**Heavy Duty AC Rated Switches**

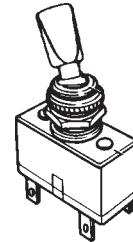
Slow make, slow break, designed specifically for use on ac and low voltage dc applications. Patented interlock mechanism prevents operation of lever through the center position until pressure is momentarily relieved.



| PART NUMBER | PRICE    | RATING AC   | CIRCUIT  | ACTION    | TERMINATION |
|-------------|----------|-------------|----------|-----------|-------------|
| 7992K10     | \$ 14.30 | 15A, 125V   | 2 P.D.T. | ON-OFF-ON | SCREW       |
| 7991K10     | 17.23    | 10A, 250V   | 3 P.D.T. |           | TERMINALS   |
| 7990K10     | 22.08    | 3/4HP, 250V | 4 P.D.T. |           |             |

**Designer Line Toggle Switches - General Purpose ac/dc Rated**

Designer Line Toggles are UL recognized and CSA certified. They are available on special order with various lever shapes and colors. Optional colored cap nuts are also available. The switches listed below have a black flat bat lever, 0.671 " long; threaded bushing, 0.468 " - 32 X 0.344 " long.

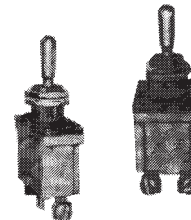


| PART NUMBER | PRICE   |  |  | ACTION      | TERMINATION |
|-------------|---------|--|--|-------------|-------------|
| 8280K127C   | \$ 2.82 |  |  | ON-NONE-OFF | Solder Lugs |
| 8282K127C   | 3.52    |  |  | ON-NONE-ON  |             |
| 8381K127C   | 2.93    |  |  | ON-NONE-OFF |             |
| 8370K127C   | 4.91    |  |  | ON-NONE-ON  |             |
| 8373K127C   | 5.63    |  |  | ON-NONE-ON  |             |

**AEROSPACE MIL SPEC TOGGLE SWITCHES**

**Commercial Grade Econoswitch Sealed Toggle Switches**

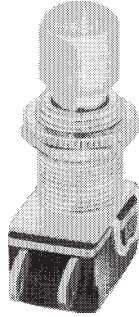
| PART NUMBER | PRICE   | RATING AC / DC   | CIRCUIT | ACTION      | BUSHING LENGTH |
|-------------|---------|--|---------|-------------|----------------|
| 7321K3      | \$ 4.69 | 16A, 125V<br>8A, 250V<br>1HP 250Vac<br>1-1/2HP 250Vdc  | 1PST    | ON-NONE-OFF | 0.469          |
| 7361K5      | 6.30    | 20A, 125V<br>10A, 250V<br>1HP 250Vac<br>1-1/2HP 250Vdc | 1PST    | ON-NONE-OFF | 0.469          |
| 8690K2      | 14.17   | 15A, 125V<br>10A, 250V                                 | 2PDT    | ON-NONE-ON  | 0.469          |
| 7320K2      | 4.43    | 16A, 125V  | 2PST    | ON-NONE-OFF | 0.344          |
| 7320K3      | 4.43    | 8A, 250V<br>1HP 250Vac                                 |         |             | 0.469          |
| 7360K7      | 5.91    | 20A, 125V<br>10A, 250V                                 | 2PST    | ON-NONE-OFF | 0.344          |
| 7360K8      | 5.91    | 1-1/2HP 250Vac<br>1-1/2HP 250Vdc                       | 2PST    | ON-NONE-OFF | 0.469          |
| 7402K3      | 10.28   | 20A, 250V  | 2PST    | ON-NONE-OFF | 0.344          |
| 7402K4      | 10.28   | 2HP 250Vac/dc  |         |             | 0.469          |



| PART NUMBER | PRICE    | RATING RESISTIVE | POLES &           | ACTION          | TERMINATION        |
|-------------|----------|------------------|-------------------|-----------------|--------------------|
| 8530K1      | \$ 14.26 | Maintained       | THROW<br>S.P.S.T. | ON-OFF-OFF      | Screw<br>Terminals |
| 8530K9      | 14.26    | 15A, 115V ac     |                   | ON-NONE-OFF     |                    |
| 8530K4      | 14.26    | 20A, 28Vdc       | S.P.D.T.          | ON-NONE-ON      |                    |
| 8530K2      | 14.26    | Momentary        |                   | MomON-OFF-MomON |                    |
| 8531K1      | 20.06    | 11A, 115Vac      |                   | ON-OFF-ON       |                    |
| 8531K9      | 20.06    | 15A, 28Vdc       | D.P.D.T.          | ON-NONE-OFF     |                    |
| 8531K4      | 20.06    |                  | D.P.S.T.          | ON-NONE-ON      |                    |
| 8531K2      | 20.06    |                  | D.P.D.T.          | MomON-OFF-MomON |                    |

**General Purpose Momentary AC Switches**

7835K11A



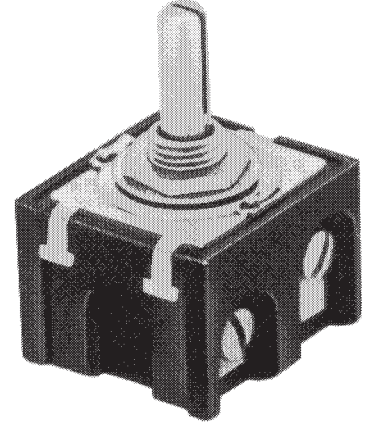
**Mounting Means:** Slotted Bushing - 15/32" Dia, 32 Threads/in; .562" long  
**Hardware Supplied** - 1 Hex Nut And 1 Knurl Unassembled  
**Finish:** Tin-Dipped Bushing And Knurled Nut Bright Nickel Buttons  
**Termination:** Solder Terminals

| Part Number | Price  | Rating AC / DC   | Circuit | Action     | Button Style  |
|-------------|--------|------------------|---------|------------|---------------|
| 7835K11A    | \$5.80 | 3A, 120V AC      | SPST    | ON-MOM.OFF | STANDARD      |
| 7835K11C    | 7.76   | 1A, 250V AC      | SPST    | ON-MOM.OFF | BLACK SNAP-ON |
| 7835K11D    | 7.76   | 1/10 HP, 120V AC | SPST    | ON-MOM.OFF | RED SNAP-ON   |
| 7836K11A    | 5.80   | AC               | SPST    | OFF-MOM.ON | STANDARD      |
| 7836K11C    | 7.69   |                  | SPST    | OFF-MOM.ON | BLACK SNAP-ON |
| 7836K11D    | 7.69   |                  | SPST    | OFF-MOM.ON | RED SNAP-ON   |

**Heavy Duty AC Only Rotary Switches**

These switches have a slow make / slow break switching mechanism with large butt type contacts. High current switching capability allows them to be used in power applications such as gas pumps, and heating and cooling ventilation systems.

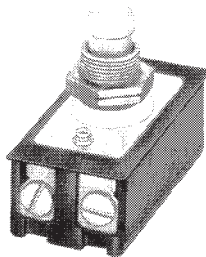
**Contact Material:** Moveable - Silver Cadmium Oxide  
**Shaft Type:** 1/4" Diameter. "D" slotted and screw driver type  
**Mounting Means:** Non-slotted Bushing - 3/8" Dia. 24 Threads per inch; .218" long  
**Hardware Supplied** - 1 Hex Nut and 1 Flat Washer unassembled  
**Finish:** Bright Nickel Shaft, Tin Dipped Sleeve and Hardware



UL Listed

| Part Number | Price   | Rating AC  | Circuit               | Switch Position                           | Shaft Type                                      | Termination |
|-------------|---------|--|-----------------------|---|---|-------------|
| 7841K1      | \$37.13 | 20A, 120V AC<br>5A*L", 120V AC<br>20A, 240V AC<br>1HP, 120V AC<br>2HP, 240V AC | DPST                  | 2 Position<br>Off - On<br>Clockwise<br>On | Slotted<br>Length .687"<br>Flat Depth<br>.046"  | Screw       |
| 7844K1      | 37.91   | 20A, 120V AC<br>20A, 240V AC<br>1HP, 120V AC                                   | Two Separate Circuits | 3 Position<br>1-Off-2                     | "D" Type<br>Length .687"<br>Flat Depth<br>.062" | Screw       |

**Double Action AC/DC Switches, 6-20 Amperes**



7229K2

The unique Arrow Hart alternate action design Push On-Push Off  
**Mounting Means:** Slotted Bushing - 15/32" Dia .32 Threads inch; .562" long  
**Hardware Supplied** - 1 Hex Nut And 1 Knurled Nut, Unassembled  
**Finish:** Tin-Dipped Bushing And Knurled Nut Bright Nickel Buttons  
**UL Listed**

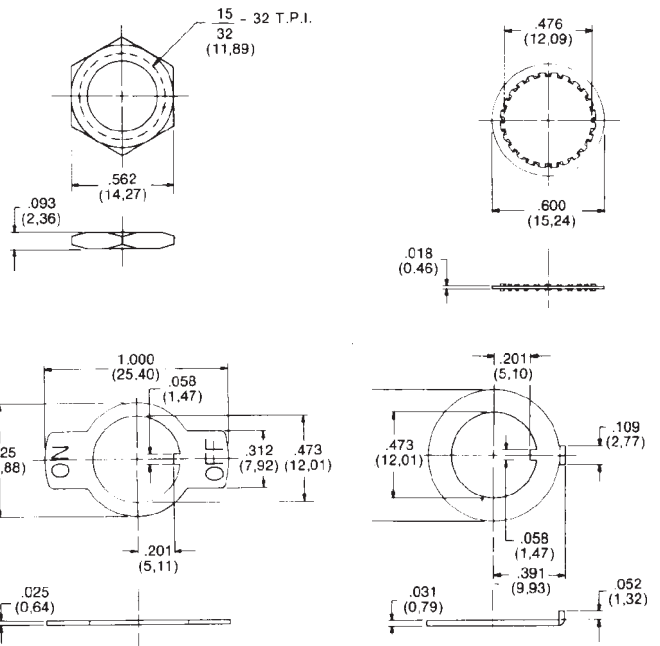
| Part Number | Price   | Rating AC / DC                              | Circuit | Push Action | Termination |
|-------------|---------|---|---------|-------------|-------------|
| 7207K104    | \$ 7.04 | 3A, 250V                                    | SPST    | ON / OFF    | WIRE LEADS  |
| 7208K104    | 6.28    |   | SPST    | ON / OFF    | SCREW       |
| 7227K2      | 9.67    | 16A, 125V<br>8A, 250V<br>1 HP, 125-250V     | DPST    | ON / OFF    | SCREW       |
| 7229K2      | 10.34   | 20A, 125V<br>10A, 250V<br>11/2 HP, 125-250V | DPST    | ON / OFF    | SCREW       |

**Mounting Hardware**

All sleeve-mounted switches are furnished with two hex type mounting nuts. One nut is mounted behind the panel to prevent the bushing from being distorted if the front panel nut is over tightened.

C

| Part Number | Price  | Description        | Thread or I.D., Inches | Material | Finish     |
|-------------|--------|--------------------|------------------------|----------|------------|
| 15-192      | \$0.10 | Std. Hex Nut       | 15/32-32               | Steel    | Chromate   |
| 16-886      | 0.10   | Lockwasher         | 15/32                  | Bronze   | Tin Dipped |
| 29-761-5    | 0.10   | Std. Locating Ring | 15/32                  | Brass    | Tin Dipped |
| 30-5632-4   | 0.13   | On - Off Dial      | 15/32                  | Brass    | Tin Dipped |



**Snap on Push-button Caps**

Optional snap on Push-button Caps are made of plastic and are ordered separately for user assembly.

| Part Number | Price  | Description              | Button Dia., In. |
|-------------|--------|--------------------------|------------------|
| 8980P32     | \$0.71 | BLACK MOLDED SNAP ON CAP | 0.625            |
| 8980P33     | 0.71   | RED MOLDED SNAP ON CAP   | 0.625            |

**Miniature Snap in Lighted and Non-Lighted Rocker Switches Elite Series**

The Elite Mini Rocker Switch series combines quality and durable construction into a compact package that fits standard industry panel cut outs.

**Mounting Means:** Snap in rectangular cutout:

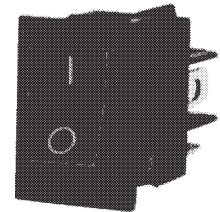
.508" Wide x .780" Long

**Minimum Panel Thickness:** .030"

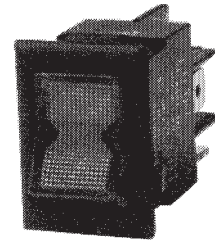
**Maximum Panel Thickness:** .118"

**NON- LIGHTED**

| Part Number       | Nominal Rating Amperes                   | Poles And Throw | Action With Lever |      | Description   | Price         |
|-------------------|--|-----------------|-------------------|------|---|---------------|
|                   |  |                 | Up                | Down |   |               |
| <b>E110M13J</b>   | 8A, 1/4HP, 125Vac                        | SPST            |                   |      | Matte Finish, Black Base; Red Lever, Quick Disconnect                       | <b>\$0.89</b> |
| <b>E120M11J</b>   | 6A, 1/2HP, 250Vac                        | DPST            | ON                | OFF  | Matte Finish, Black Base; Black Lever, Quick Disconnect                     | <b>1.19</b>   |
| <b>E120M11J01</b> |  |                 |                   |      | Matte Finish, Black Base; Red Lever, Quick Disconnect with ( I - O ) Legend | <b>1.78</b>   |
| <b>E20M11J</b>    | 10A, 1/4HP, 125Vac<br>10A, 1/2HP, 250Vac | SPST            |                   |      | Matte Finish, Black Base; Black Lever, Quick Disconnect                     | <b>0.89</b>   |



E120M11J01



E120MR11J

**LIGHTED**

| Part Number      | Nominal Rating Amperes | Poles And Throw | Action With Lever |      | Description   | Price         |
|------------------|------------------------|-----------------|-------------------|------|---|---------------|
|                  |                        |                 | Up                | Down |   |               |
| <b>E110MR11J</b> | 8A, 1/4HP, 125Vac      | SPST            | ON                | OFF  | 125V Neon, Red Lens, Matte Finish, Black Base, Quick Disconnect | <b>\$1.97</b> |
| <b>E120MR11J</b> | 6A, 1/2HP, 250Vac      | DPST            |                   |      |   | <b>2.19</b>   |