

## A Series

## Typical Applications

- **Enclosure equipment**
- **Garage door openers**
- **Vending machines**



## Materials

SWITCH HOUSING: Heat resistant phenolic (UL 94V-0).  
 ACTUATOR BUTTON: Heat resistant phenolic (UL 94V-0).  
 SPRING: Copper alloy.  
 PIVOT: Brass alloy for models up to 15 AMPS.  
 Copper for 25 AMP models.  
 MOVABLE CONTACTS: Gold alloy for ratings 1 AMP or less.  
     Fine silver for ratings up to 15 AMPS. Silver alloy  
     for ratings of 30.1 AMPS.  
 STATIONARY CONTACTS: Gold alloy on brass base alloy  
     for ratings 1 AMP or less. Fine silver welded on brass base  
     alloy for ratings greater than 1 AMP up to 15 AMPS.  
     Fine silver welded on copper alloy for ratings 30.1 AMPS.  
 TERMINALS: Brass alloy for 1 AMP up to 15 AMPS.  
     Copper alloy for 30.1 AMPS.

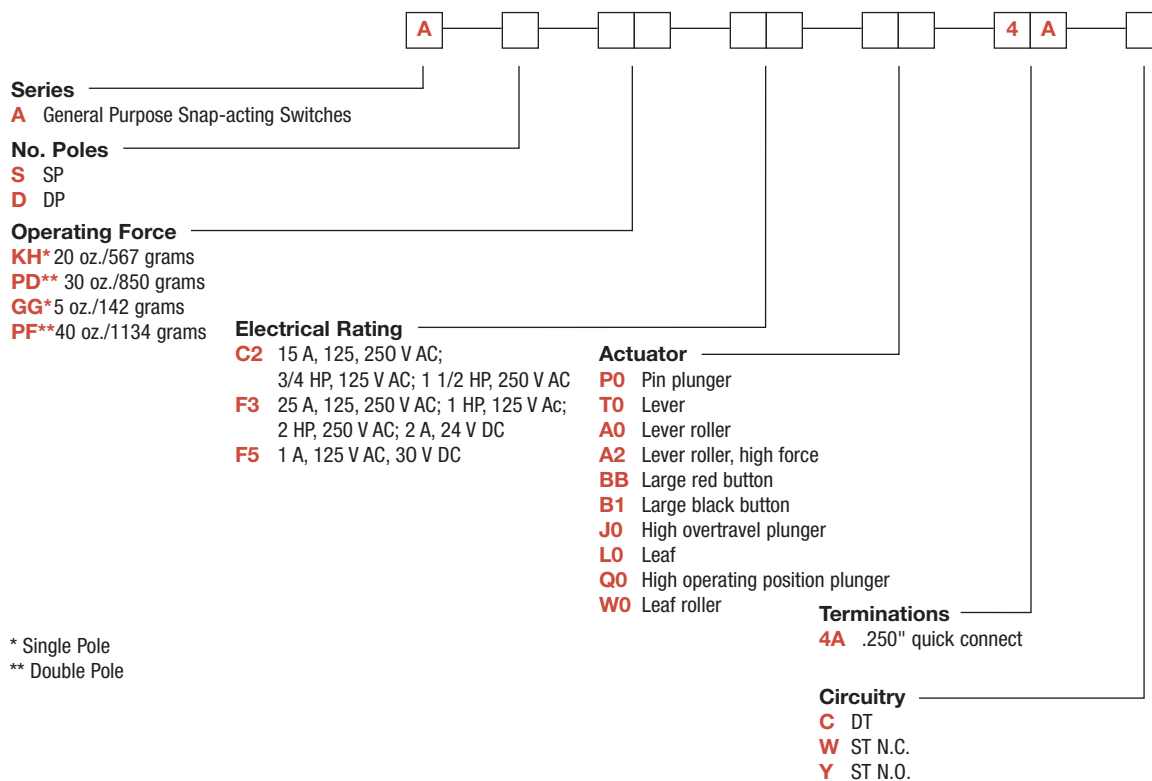
\* Low Level=conditions where no arcing occurs during switching, i.e., 0.4 VA max. @ 20 V AC or DC max.

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



## Snap-acting

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages J-78 through J-81. For additional options not shown in catalog, consult Customer Service Center.



\* Single Pole  
\*\* Double Pole

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

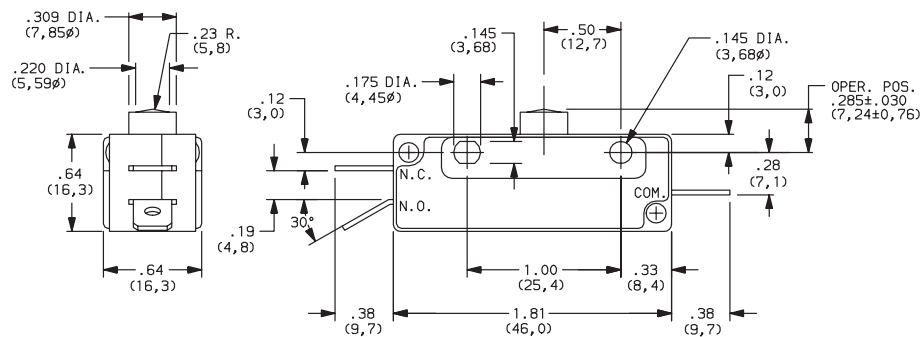
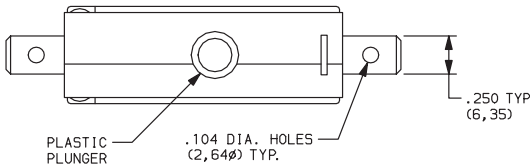
[www.ck-components.com](http://www.ck-components.com)

**SERIES** 

## A GENERAL PURPOSE SNAP-ACTING SWITCHES

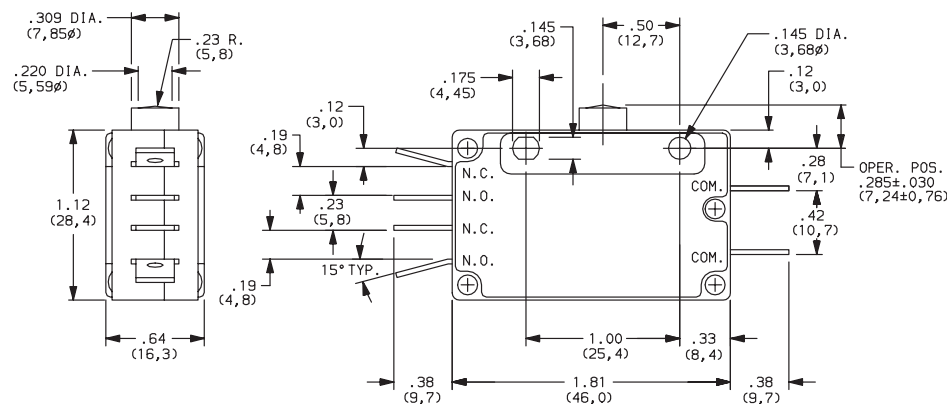
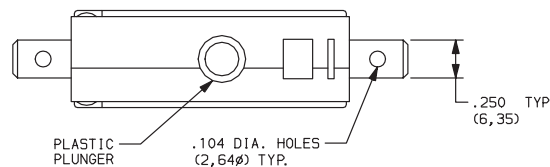
**NO. POLES** 

**S** SINGLE POLE SWITCH



Mounting holes will accept pins or screws  
of .139 dia. (3,53) max., on 1.000 (25,40) centers.

**D** DOUBLE POLE SWITCH



Mounting holes will accept pins or screws  
of .139 dia. (3,53) max., on 1.000 (25,40) centers.

**NOTE:** To select switching function, see CIRCUITRY section, page J-81.



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change



# A Series General Purpose Snap-acting Switches

## OPERATING FORCE

| OPTION CODE | NO. POLES | BASIC SWITCH OPERATING FORCE (OZ./GRAMS) |
|-------------|-----------|------------------------------------------|
| KH          | SP        | 20<br>567                                |
| PD          | DP        | 30<br>850                                |
| GG          | SP        | 5<br>142                                 |
| PF          | DP        | 40<br>1134                               |

**NOTE:** Operating force varies with actuator, see ACTUATOR option section.

## ELECTRICAL RATING

| OPTION CODE | CONTACT MATERIAL |                                         | ELECTRICAL RATING                                                             |
|-------------|------------------|-----------------------------------------|-------------------------------------------------------------------------------|
|             | MOVABLE CONTACT  | STATIONARY CONTACT                      |                                                                               |
| C2          | Fine silver.     | Fine silver welded on brass base alloy. | 15 AMPS @ 125 & 250 V AC; 3/4 HP @ 125 V AC; 1-1/2 HP @ 250 V AC.             |
| F3          | Silver alloy.    | Silver welded on copper base alloy.     | 25 AMPS @ 125 & 250 V AC; 1 HP @ 125 V AC; 2 HP @ 250 V AC; 2 AMPS @ 24 V DC. |
| F5          | Gold alloy.      | Gold alloy on brass base alloy.         | From low level* to 1 AMP @ 125 V AC, 30 V DC.                                 |

All models  with all options.

Contact Customer Service Center for availability and delivery of nonstandard ratings.

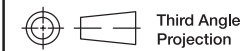
\* Low Level=conditions where no arcing occurs during switching,  
i.e., 0.4 VA max. @ 20 V AC or DC max.

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

### AVAILABLE COMBINATIONS

| ELECTRICAL RATING | OPERATING FORCE (OZ./GRAMS) |                 |                 |                  |
|-------------------|-----------------------------|-----------------|-----------------|------------------|
|                   | GG<br>5<br>142              | KH<br>20<br>567 | PD<br>30<br>850 | PF<br>40<br>1134 |
| C2                | •                           | •               | •               | •                |
| F3                | x                           | •               | •               | •                |
| F5                | •                           | •               | •               | •                |

• AVAILABLE  
x NOT AVAILABLE



Dimensions are shown: Inch (mm)

Specifications and dimensions subject to change

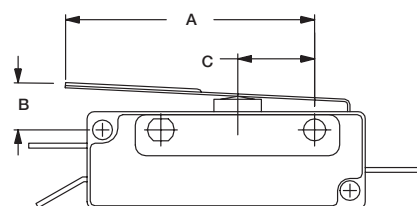
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Snap-acting

**ACTUATOR**

**NOTE:** The "H0" high overtravel plunger option provides .100 (2,54) min. overtravel and longer mechanical life (1,000,000 operations typical).



Technical drawing of a mechanical assembly. The drawing shows a side view of a component with a central slot and a circular feature on the right. Dimensions are indicated by arrows and labels: A is the width of the circular feature, C is the height of the circular feature, D is the width of the central slot, and E is the height of the main body. The drawing includes a cross-section view of the circular feature on the right, showing its internal structure and a central hole. The main body has a central slot and a smaller slot on the right side. The drawing is a technical illustration of a mechanical part, likely a component of a larger machine.

Technical drawing of a mechanical part. The main view shows a cross-section of a component with dimensions E, F, and D. Dimension E is the total width, F is the width of the left flange, and D is the distance from the center of the flange to the center of the main body. A detail view on the right shows a cross-section of a circular feature with a central hole, labeled A and C. The detail view also shows a dimension of 10 mm for the radius of the circular feature.

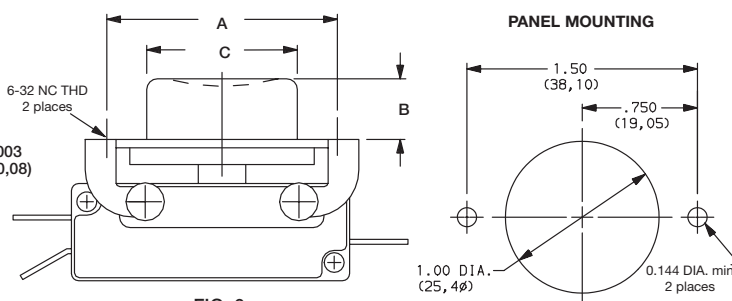
STAINLESS STEEL  
PLUNGER

3/8-32 NEF THD.

PANEL MOUNTING

$.380 \pm .003$   
 $(9.65 \pm 0.08)$

Torque 20 in/lbs max. (Nut)



Technical drawing of a mechanical part showing dimensions A, B, C, and D. The drawing includes a cross-section view and a side view. Dimension A is the total length of the part. Dimension B is the height of the part. Dimension C is the length of the top flange. Dimension D is the distance from the left edge to the center of the top flange.

Technical drawing of a mechanical assembly. The drawing shows a side view of a component with a circular feature on the left and a rectangular base. Dimensions are indicated by arrows and labels: A is the total width, B is the height of the base, C is the radius of the circular feature, and D is the distance from the center of the circular feature to the right edge of the base.



Third Angle Projection

*Specifications and dimensions subject to change*

# A Series General Purpose Snap-acting Switches

## ACTUATOR

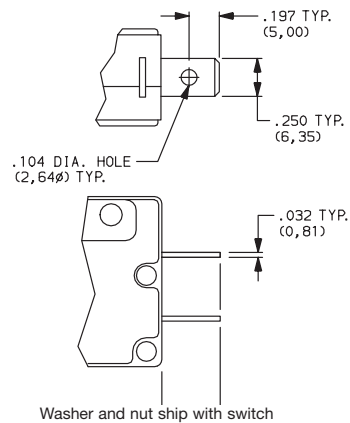
### SWITCH CHARACTERISTICS

| OPTION CODE | MAXIMUM OPERATING FORCE (OZ./GRAMS) |           |           |            | MINIMUM RELEASE FORCE (OZ./GRAMS) |           |           |         | MAXIMUM PRETRAVEL |         |         |         | MINIMUM OVERTRAVEL |                |         |         | OPERATING POSITION |         |         |         |
|-------------|-------------------------------------|-----------|-----------|------------|-----------------------------------|-----------|-----------|---------|-------------------|---------|---------|---------|--------------------|----------------|---------|---------|--------------------|---------|---------|---------|
|             | GG S.P.                             | KH S.P.   | PD D.P.   | PF D.P.    | GG S.P.                           | KH S.P.   | PD D.P.   | PF D.P. | GG S.P.           | KH S.P. | PD D.P. | PF D.P. | GG S.P.            | KH S.P.        | PD D.P. | PF D.P. | GG S.P.            | KH S.P. | PD D.P. | PF D.P. |
| A0          | 1.5<br>42.5                         | 4<br>113  | 6<br>170  | 10<br>283  | 0.3<br>8.5                        | 0.5<br>14 | 1<br>28   |         | .312<br>(7,92)    |         |         |         | .312<br>(7,92)     | .187<br>(4,75) |         |         | .718<br>(18,24)    |         |         |         |
| A2          | 1.5<br>42.5                         | 4<br>113  | 6<br>170  | 10<br>283  | 0.4<br>11                         | 0.5<br>14 | 1<br>28   |         | .25<br>(6,4)      |         |         |         | .14<br>(5,6)       |                |         |         | .718<br>(18,24)    |         |         |         |
| B1          | 8<br>227                            | 20<br>567 | 30<br>850 | 40<br>1134 | 1<br>28                           | 3<br>85   | 6<br>170  |         | .050<br>(1,27)    |         |         |         | .050<br>(1,27)     |                |         |         | —                  |         |         |         |
| BB          | 8<br>227                            | 20<br>567 | 30<br>850 | 40<br>1134 | 1<br>28                           | 3<br>85   | 6<br>170  |         | .050<br>(1,27)    |         |         |         | .050<br>(1,27)     |                |         |         | —                  |         |         |         |
| J0          | 5<br>142                            | 20<br>567 | 30<br>850 | 40<br>1134 | 1<br>28                           | 3<br>85   | 6<br>170  |         | .050<br>(1,27)    |         |         |         | .187<br>(4,75)     |                |         |         | —                  |         |         |         |
| L0          | 3<br>85                             | 12<br>340 | 18<br>510 | 22<br>624  | 0.5<br>14                         | 1<br>28   | 2<br>56.7 |         | .281<br>(7,14)    |         |         |         | .062<br>(1,57)     |                |         |         | .312<br>(7,92)     |         |         |         |
| P0          | 8<br>227                            | 20<br>567 | 30<br>850 | 40<br>1134 | 1<br>28                           | 3<br>85   | 6<br>170  |         | .050<br>(1,27)    |         |         |         | .050<br>(1,27)     |                |         |         | —                  |         |         |         |
| Q0          | 5<br>142                            | 20<br>567 | 30<br>850 | 40<br>1134 | 1<br>28                           | 3<br>85   | 6<br>170  |         | .050<br>(1,27)    |         |         |         | .050<br>(1,27)     |                |         |         | —                  |         |         |         |
| T0          | 1.5<br>42.5                         | 4<br>113  | 6<br>170  | 10<br>283  | 0.3<br>8.5                        | 0.5<br>14 | 1<br>28   |         | .312<br>(7,92)    |         |         |         | .187<br>(4,75)     |                |         |         | .312<br>(7,92)     |         |         |         |
| W0          | 3<br>85                             | 12<br>340 | 18<br>510 | 22<br>624  | 0.5<br>14                         | 1<br>28   | 2<br>56.7 |         | .281<br>(7,14)    |         |         |         | .062<br>(1,57)     |                |         |         | .718<br>(18,24)    |         |         |         |

NOTE: For basic switch operating forces, see page J-77.

## TERMINATIONS

### 4A .250" QUICK CONNECT



NOTE: Terminals can be supplied at various angles. Other terminal styles can be supplied for special applications. Consult Customer Service Center for special requirements.

## CIRCUITRY

- C** DT (Double Throw, Normally Open & Normally Closed)
- W** ST N.C. (Single Throw, Normally Closed)
- Y** ST N.O. (Single Throw, Normally Open)

NOTE: To select number of poles, see NO. POLES section, page J-56



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

